

INFORMATION- 11/3/15

VI. COMMUNICATIONS

A. COMMUNICATIONS RECEIVED:

1. Letter from Heritage Garden Wind Farm
2. Letter from Belinda Collins

B. COMMUNICATIONS FORWARDED:

1. Letter to UP State Fair Authority
2. Letter to William Charon
3. Letter to Dennis Wiltzius
4. Letter to Tom Pairolero
5. Letter to John Winneroski
6. Letter to Tom Trudgeon
7. Letter to Vicki Schwab
8. Letter to Will Carne Jr.
9. Letter to Harold Schermer
10. Letter to Michael Parrett
11. Letter to Margaret Carignan
12. Letter to Sharyn Caszatt
13. Letter to Russell Nelson

VII. REPORTS OF STANDING AND STATUTORY COMMITTEES

1. CAA/HRA minutes of 9-10-15
2. Concealed Weapons minutes of 9-15-15
3. Human Services Board minutes of 9-21-15
4. Solid Waste Authority minutes of 9-22-15
5. Pinecrest Board minutes of 8-27-15, 9-23-15
6. Central Dispatch minutes of 10-14-15

VIII. REPORTS OF SPECIAL COMMITTEES AND OTHERS

1. Township Association minutes of 9-24-15

HERITAGE GARDEN WIND FARM I, LLC

121 East Front Street, Suite 200
Traverse City, Michigan 49684-2570

Telephone: (231) 935-3659
Facsimile: (231) 929-0242

October 5, 2015

Delta County Board of Commissioners
c/o Tracy Lantagne, Board Secretary
310 Ludington Street
Escanaba, MI 49829

VIA E-mail

Dear Commissioners:

We would like to commend the Delta County Board of Commissioners for being responsive to the community regarding the development of clean, renewable wind generated electricity in Delta County.

The Board and the Planning Commission have put forth a tremendous effort towards establishing an Ordinance that is strict and comprehensive, yet allows for landowners to exercise their ownership rights in order to capture the wind resource. It reflects the wishes of the community and we support your approval of the wind ordinance as proposed by the Planning Commission.

Thank you for your consideration. If you have any questions or concerns, please feel free to contact me at your convenience.

Sincerely,

Rick Wilson
Vice President of Operations
Heritage Sustainable Energy

Oct 15, 2015

Hello,

I contacted Heritage to get the list of materials used in the wind turbines so you could review them.

We (Ron & I) are fine with the turbines and believe they are cleaner than coal. I think that the materials used in cars, trucks, planes, so on are more hazardous but that's only our opinion.

Ray Young (in Garden) and the Garden Fire and EMS were given a complete copy of this info on the materials in 2012. As far as if something should happen with the Wind Turbines, it is NOT Delta county's responsibility to take them down or do anything with them. It would be Heritage I believe or for sure the land owner's problem to deal with. If one was on my land and was shut down, I'd just leave it, wouldn't bother me.

All of this has become just a pain and it's sad it seems the Garden peninsula has become divided. Thank you for all you do and patience in all of this.

Sincerely
Belinda Collins

Good morning Rick,

Here is a list of materials used in the turbine:

- Info
Pages#*
- 1 Hydraulic oil –Shell Tellus S2 V32
 - 2 Gearbox oil – Shell Omala S4 GX 320
 - 3 Grease for lubrication of the main bearings and locking pins – SKF LGWM1 grease
 - 4 Grease for lubrication of the yaw teeth – Klüberplex AG 11-462
 - 5 Grease for lubrication of the yaw slide elements - Castrol Optitemp SW1 (we have just recently switched to this; we were using Shell Gadus)
 - 6 Grease for the autolubber (generator bearings) – Klüberplex BEM 41-132
 - 7 Blade grease – Shell Rhodina BBZ

As far as metals in the turbine, I do not have a comprehensive list of these. Perhaps Nathan can help with this.

I will follow up with EHS on the safety zone procedure. Thank you.

Sincerely,



Heritage Garden Wind Farm

ENVIRONMENTAL AND OTHER VALUES

Traditional electricity generation from fossil fuels is the largest industrial source of air pollution in the United States. Primarily, wind energy generation does not contribute harmful gases and particles (such as aerosols and greenhouse gases) to the atmosphere and it uses no water!

As of 2009, over 60% of the electricity generated for consumption in Michigan came from burning coal. 100% of the coal used to generate electricity in Michigan is imported from other states. In contrast, wind power is homegrown, inexhaustible, and clean.

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Independent studies conducted in the U.S. and around the world have consistently found wind farms have **no direct impact on physical health**.
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Ongoing avian and other wildlife assessments at Heritage Garden Wind Farm show mortality rates in line with other sites across the country.
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Wind energy has the **lowest lifetime emissions** of all generating technologies. A wind turbine reimburses the energy and CO2 used to manufacture and install it in three to six months of operation.
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Wind power **does not generate CO2** or other harmful green house gas pollutants that would otherwise be produced if the same electricity were to be produced from fossil fuels.
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Wind energy also **eliminates** production of **harmful particulate matter**, sulfur, mercury and other emissions associated with fossil fuel generation.
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There are **no emissions** of nitrogen oxide, sulfur dioxide, or mercury from wind energy generation.
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Wind energy does not use water during generation.





Heritage Garden Wind Farm

Bringing Clean Energy to the Garden Peninsula and Delta County

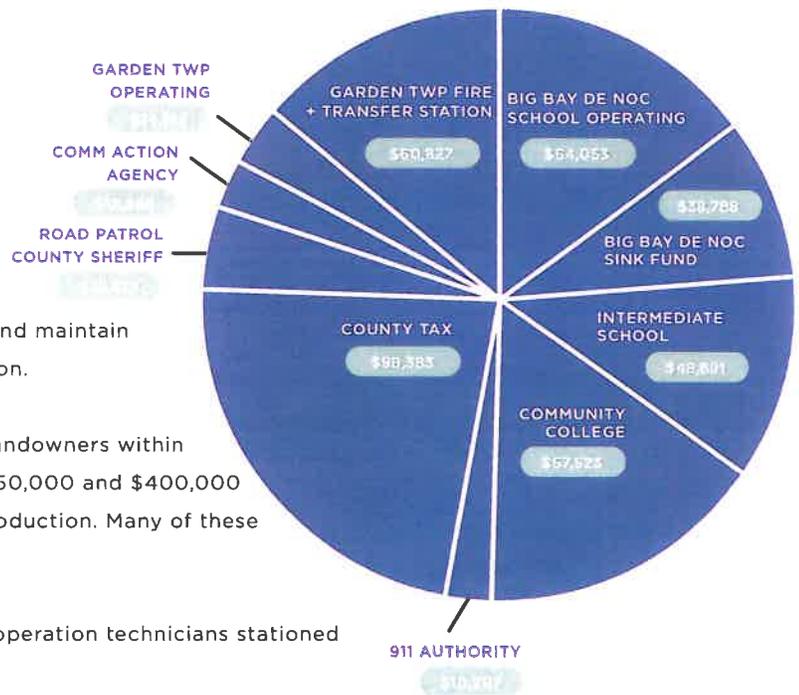
The Garden Wind Farm in Garden Township of Delta County, Michigan, is the first wind energy generating facility in the Upper Peninsula. It consists of 14 - 2 megawatt wind turbines, for a total installed generation capacity of 28 megawatts. The wind farm became fully operational in September of 2012. Over an annual period, the wind farm generates in excess of 70,000 megawatt hours of renewable, clean electricity. This is equivalent to the amount of energy needed to power nearly 7,000 average households (nearly 50% of the households in Delta County!).

ECONOMIC VALUE

Heritage is making significant long term investments in Delta County and the Upper Peninsula. During construction and operations, the increased spending, local contracts, and jobs benefit a broad spectrum of businesses and residents. Highlights include:

- Tax revenue** from the wind farm will help improve and maintain services to all residents of the county and the region.
- Regular **royalty revenues** paid to 53 participating landowners within the wind farm unit are estimated to be between \$250,000 and \$400,000 annually, depending on wind speeds and energy production. Many of these dollars, in turn, cycle through the local economy.
- 5-6 full-time **permanent jobs** for maintenance and operation technicians stationed in Garden.
- Contracts with a variety of **local businesses** for regular maintenance and operation-related needs.
- Over \$10 million was injected into the **local economy** during construction.
- Over 40 local and **regional businesses** in the Upper Peninsula were utilized for site work, equipment rental, supplies, fuel, maintenance, fencing, materials, food and lodging during construction.
- Over 75 **local jobs** were created for the **construction** of the wind farm.

2013 TAXES PAID BY WIND FARM





Shell Tellus Oil T 32

MSDS# 10925

Version 1.1

Effective Date 06/30/2009

1910.1200

Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Shell Tellus Oil T 32
Uses : Hydraulic oil

Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX 77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number
Spill Information : 877-242-7400
Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oils and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Amber. Liquid at room temperature. Slight hydrocarbon.
Health Hazards	: High-pressure injection under the skin may cause serious damage including local necrosis.
Safety Hazards	: Not classified as flammable but will burn.
Environmental Hazards	: Not classified as dangerous for the environment.

Health Hazards : Not expected to be a health hazard when used under normal conditions.

Health Hazards Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Other Information : High-pressure injection under the skin may cause serious damage including local necrosis. Used oil may contain harmful impurities.

Signs and Symptoms : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Ingestion may result in nausea, vomiting and/or diarrhoea.

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- Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.
- Environmental Hazards Additional Information** : Not classified as dangerous for the environment.
: Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

- General Information** : Not expected to be a health hazard when used under normal conditions.
- Inhalation** : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
- Skin Contact** : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
- Eye Contact** : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
- Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Advice to Physician** : Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : Typical 210 °C / 410 °F (COC)
- Upper / lower Flammability or Explosion limits** : Typical 1 - 10 %(V)(based on mineral oil)
- Auto ignition temperature** : > 320 °C / 608 °F
- Specific Hazards** : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

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- Suitable Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable Extinguishing Media** : Do not use water in a jet.
- Protective Equipment for Firefighters** : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

- Protective measures** : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Clean Up Methods** : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
- Additional Advice** : Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

- General Precautions** : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Handling** : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
- Storage** : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
- Recommended Materials** : For containers or container linings, use mild steel or high density polyethylene.
- Unsuitable Materials** : PVC.
- Additional Information** : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
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Material Safety Data Sheet

Oil mist, mineral	ACGIH	TWA(Mist.)		5 mg/m3	
Oil mist, mineral	ACGIH	STEL(Mist.)		10 mg/m3	

- Exposure Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
- Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- Respiratory Protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].
- Hand Protection** : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye Protection** : Wear safety glasses or full face shield if splashes are likely to occur.
- Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- Monitoring Methods** : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
- Environmental Exposure Controls** : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

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environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Amber. Liquid at room temperature.
Odour	: Slight hydrocarbon.
pH	: Not applicable.
Initial Boiling Point and Boiling Range	: > 280 °C / 536 °F estimated value(s)
Pour point	: Typical -39 °C / -38 °F
Flash point	: Typical 210 °C / 410 °F (COC)
Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Density	: Typical 872 kg/m ³ at 15 °C / 59 °F
Water solubility	: Negligible.
n-octanol/water partition coefficient (log Pow)	: > 6 (based on information on similar products)
Kinematic viscosity	: Typical 32 mm ² /s at 40 °C / 104 °F
Vapour density (air=1)	: > 1 (estimated value(s))
Evaporation rate (nBuAc=1)	: Data not available

10. STABILITY AND REACTIVITY

Stability	: Stable.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Materials to Avoid	: Strong oxidising agents.
Hazardous Decomposition Products	: Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.
Mutagenicity	: Not considered a mutagenic hazard.
Carcinogenicity	: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic

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effects.

- Reproductive and Developmental Toxicity** : Not expected to be a hazard.
- Additional Information** : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

- Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
- Mobility** : Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
- Persistence/degradability** : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
- Bioaccumulation** : Contains components with the potential to bioaccumulate.
- Other Adverse Effects** : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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14. TRANSPORT INFORMATION**US Department of Transportation Classification (49CFR)**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status**Notification Status**

EINECS	All components listed or polymer exempt.
TSCA	All components listed.
DSL	All components listed.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity)	: 0, 1, 0
MSDS Version Number	: 1.1
MSDS Effective Date	: 06/30/2009

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- MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Regulation** : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- MSDS Distribution** : The information in this document should be made available to all who may handle the product.
- Disclaimer** : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.



Shell Tivela Oil S 320

MSDS# 402956L

Version 2.1

Effective Date 09/03/2010

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Shell Tivela Oil S 320
Uses : Gear lubricant.

Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX 77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number

Spill Information : 877-242-7400

Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of polyalkylene glycol and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Clear colourless. Liquid at room temperature. Slight hydrocarbon.
Health Hazards	: Not classified as dangerous for supply or conveyance.
Safety Hazards	: Not classified as flammable but will burn.
Environmental Hazards	: Not classified as dangerous for the environment.

Health Hazards : Not expected to be a health hazard when used under normal conditions.

Health Hazards Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Other Information : Used oil may contain harmful impurities.

Signs and Symptoms : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Aggravated Medical Condition : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

Environmental Hazards : Not classified as dangerous for the environment.

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Additional Information : Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under normal conditions.

Inhalation : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

Eye Contact : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

Advice to Physician : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : Typical 286 °C / 547 °F (COC)

Upper / lower Flammability or Explosion limits : Typical 1 - 10 %(V)

Auto ignition temperature : > 320 °C / 608 °F

Specific Hazards : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Suitable Extinguishing Media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media : Do not use water in a jet.

Protective Equipment for Firefighters : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Clean Up Methods : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or

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- other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
- Additional Advice** : Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

- General Precautions** : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Handling** : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
- Storage** : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
- Recommended Materials** : For containers or container linings, use mild steel or high density polyethylene.
- Unsuitable Materials** : PVC.
- Additional Information** : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Mist.)		5 mg/m3	
Oil mist, mineral	ACGIH	STEL(Mist.)		10 mg/m3	

- Exposure Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
- Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- Respiratory Protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of

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material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

- Hand Protection** : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye Protection** : Wear safety glasses or full face shield if splashes are likely to occur.
- Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- Monitoring Methods** : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
- Environmental Exposure Controls** : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Clear colourless. Liquid at room temperature.
- Odour : Slight hydrocarbon.
- pH : Not applicable.
- Initial Boiling Point and Boiling Range : > 280 °C / 536 °F estimated value(s)
- Pour point : Typical -39 °C / -38 °F
- Flash point : Typical 286 °C / 547 °F (COC)
- Upper / lower Flammability or Explosion limits : Typical 1 - 10 %(V)
- Auto-ignition temperature : > 320 °C / 608 °F
- Vapour pressure : < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
- Density : Typical 1,069 kg/m³ at 15 °C / 59 °F
- Water solubility : Negligible.
- n-octanol/water partition coefficient (log Pow) : > 6 (based on information on similar products)
- Kinematic viscosity : Typical 320 mm²/s at 40 °C / 104 °F

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Vapour density (air=1) : > 1 (estimated value(s))
Evaporation rate (nBuAc=1) : Data not available

10. STABILITY AND REACTIVITY

Stability : Stable.
Conditions to Avoid : Extremes of temperature and direct sunlight.
Materials to Avoid : Strong oxidising agents.
Hazardous Decomposition Products : Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity : Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation : Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation : Expected to be slightly irritating.
Respiratory Irritation : Inhalation of vapours or mists may cause irritation.
Sensitisation : Not expected to be a skin sensitiser.
Repeated Dose Toxicity : Not expected to be a hazard.
Mutagenicity : Not considered a mutagenic hazard.
Carcinogenicity : Components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity : Not expected to be a hazard.
Additional Information : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Mobility : Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Material Safety Data Sheet

- Persistence/degradability** : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
- Bioaccumulation** : Contains components with the potential to bioaccumulate.
- Other Adverse Effects** : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION**US Department of Transportation Classification (49CFR)**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status**Notification Status**

- | | |
|--------|--|
| DSL | All components listed. |
| EINECS | All components listed or polymer exempt. |
| TSCA | All components listed. |

Material Safety Data Sheet

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) : 0, 1, 0

MSDS Version Number : 2.1

MSDS Effective Date : 09/03/2010

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.

MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

#3



SAFETY DATA SHEET

LGWM 1

Last changed: 06/10/2010

Replaces date: 01/11/2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME LGWM 1
APPLICATION AREA Fat.

NATIONAL MANUFACTURER/IMPORTER

Enterprise SKF Maintenance Products
Address Postbus 1008
Postal code NL-3430 BA Nieuwegein
Country The Netherlands
Telephone +31 30 6307200
Fax +31 30 6307205

CONTACT PERSONS

Name	E-mail	Telephone	Country
David Sébastien	sebastien.david@skf.com	+ 31 30 6307200	The Netherlands

2. HAZARDS IDENTIFICATION

HEALTH

May be irritating to eyes.
Prolonged or frequently recurrent contact will degrease the skin and may cause skin irritation.

FIRE AND EXPLOSION

Not flammable, but combustible.

ENVIRONMENT

Oil products may cause ground and water pollutants.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
baseoil-unspecified		-	-	60 - 100 %	No classification required

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=Irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Seek medical advice if symptoms develop.

SKIN CONTACT

Immediately flush contaminated skin with soap or mild detergent and water. Immediately remove soaked clothing and flush the skin with water. Use appropriate hand lotion to prevent degreasing and cracking of skin. Seek medical advice if irritation persists.

EYE CONTACT

Immediately flush eyes with plenty of water while holding eye lids open. Remove any contact lenses and continue rinsing with water for at least 15 minutes (keep the eyelids open). Seek medical advice if irritation persists.

INGESTION

DO NOT INDUCE VOMITING! If vomiting occurs, keep head low so that stomach contents do not enter lungs. Thoroughly rinse the mouth with water. Drink a few glasses of water or milk. Seek medical advice.

5. FIRE-FIGHTING MEASURES



SAFETY DATA SHEET

LGWM 1

Last changed: 06/10/2010

Replaces date: 01/11/2007

EXTINGUISHING MEDIA

Extinguishing agent: carbon dioxide, powder, foam, water spray or water mist.

IMPROPER EXTINGUISHING MEDIA

Do not use a direct water stream which may spread the fire.

EXTINGUISHING METHODS

Remove containers from fire area if this can be done without risk. Use water to cool exposed containers. If possible, fight the fire from a protected location.

FIRE AND EXPLOSION HAZARDS

Not flammable, but combustible. Carbon monoxide and hydrocarbons are released in a fire situation.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide good ventilation. Avoid contact with the skin, eyes and airways. Wear necessary protective equipment. Keep the emission away from sources of ignition.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Must not be released into the sewage system, drinking water supply or ground.

METHODS FOR CLEANING UP

Dry, scrape or absorb the product with inert material and place it in a refuse container. Collect and dispose of materials in closed and labelled containers at an approved disposal or waste collection facility. Clean with soap and water or detergent. Flush clean with plenty of water. Be aware of the risk of slippery surfaces.

7. HANDLING AND STORAGE

HANDLING ADVICE

Provide good ventilation. Avoid contact with the skin and eyes. Wear necessary protective equipment. Keep away from sources of ignition.

STORAGE

Keep in a dry, cool and well-ventilated area. Keep in original container. Keep containers tightly closed. Store at temperatures below 50 °C. Avoid contact with oxidising substances. Keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL

Provide good ventilation. Wash the skin at the end of each work shift and before eating, smoking and using restroom facilities. Eye wash facilities and safety shower must be available when handling this product.

RESPIRATORY PROTECTION

Respiratory protective equipment is usually not necessary. In case of insufficient ventilation, wear respiratory protective equipment with A/P2 filter.

EYE PROTECTION

Wear approved safety goggles if there is a risk of eye splash.

HAND PROTECTION

Protective gloves (nitrile rubber, Viton®).



SAFETY DATA SHEET

LGWM 1

Last changed: 06/10/2010

Replaces date: 01/11/2007

PROTECTIVE CLOTHING

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Paste.

COLOUR Orange.

ODOUR Mineral oil.

WATER SOLUBILITY Insoluble in water.

Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
Flash point	> 150.00 °C		
Density	< 1.00 g/cm ³	25 °C	

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

Avoid heat, sparks and naked flames.

MATERIALS TO AVOID

Avoid contact with oxidising substances.

11. TOXICOLOGICAL INFORMATION

INHALATION

On warming/heating, the vapours emitted may cause irritation to the respiratory organs. May cause coughing and breathing difficulties.

SKIN CONTACT

Prolonged or frequently recurrent contact will degrease the skin and may cause skin irritation.

EYE CONTACT

May cause moderate irritation/smarting.

INGESTION

May cause irritation of the mucous membranes, nausea and vomiting.

12. ECOLOGICAL INFORMATION

MOBILITY

Insoluble in water. The product floats on water.

DEGRADABILITY

Not readily biodegradable.

OTHER EFFECTS

Oil products may cause ground and water pollutants.



SAFETY DATA SHEET

LGWM 1

Last changed: 06/10/2010

Replaces date: 01/11/2007

CONCLUSION

Not readily biodegradable.

Oil products may cause ground and water pollutants.

Must not be released into the sewage system, drinking water supply or ground.

OTHER INFORMATION

German water pollution classification (WGK): 1 Water pollutant.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Treat as hazardous waste. Collect and dispose of materials in closed and labelled containers at an approved disposal or waste collection facility. Empty packages must be handled in an environmentally safe manner in accordance with applicable laws and regulations.

CATEGORY OF WASTE

The EWC code is a suggestion only; the end user will select a suitable EWC code. 12 01 12* spent waxes and fats

Waste product number: 7021 Oily and greasy waste.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: No

OTHER INFORMATION

Not classified as dangerous goods.

15. REGULATORY INFORMATION

EC-Label: No

COMPOSITION

baseoil-unspecified (60 - 100 %)

S-PHRASES

S24/25 Avoid contact with skin and eyes.

Not translated to English

REFERENCES

Directive 1999/45/EC.

Annex VI to Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Dangerous Substances.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

European Waste Catalogue.

Not translated to English Transport of dangerous goods: ADR, RID, IMDG and IATA.

16. OTHER INFORMATION

ISSUED: 22/03/2006



MATERIAL SAFETY DATA SHEET

Print date: 25-Apr-2011

Revision Number: 1

Revision date: 25-Apr-2011

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Klüberplex AG 11-462
Article Code: 039091
Synonyms: No information available
Chemical characterisation: Not applicable..

Supplier:
 Klüber Lubrication North America L.P.
 32 Industrial Drive
 Londonderry, NH 03053
 (603) 647-4104
 Fax (603) 647-4106

Emergency telephone number CHEMTREC: 1-800-424-9300 International: (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	ACGIH (TWA mg/m ³):	OSHA (TWA mg/m ³):
Mineral oil		None	None
Zinc sulfide		None	None
Ester oil		None	None
Aluminum complex soap		1	None

3. HAZARDS IDENTIFICATION

Properties affecting health: Harmful if swallowed
Principle routes of exposure: Skin.
Skin contact: Prolonged skin contact may cause skin irritation and/or dermatitis..
Eye contact: Contact with eyes may cause irritation.
Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.
Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician.

Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
Eye contact:	Flush eye with water for 15 minutes. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting. Consult a physician.
Notes to physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO₂), Dry chemical, Dry sand, Water spray mist or foam

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

Specific hazards:	Burning produces irritant fumes In the event of fire and/or explosion do not breathe fumes
Unusual hazards:	No hazards resulting from the material as supplied
Specific methods:	Water mist may be used to cool closed containers. Standard procedure for chemical fires.
Flash point:	Not applicable.
Autoignition temperature:	Not determined..
Flammability Limits in Air:	
Lower	No information available
Upper	No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.
Methods for cleaning up:	Scrape-up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions:

Safe handling advice:

No special technical protective measures required. Spilling onto the container's outside will make container slippery. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical measures/storage conditions:

Incompatible products:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labelled containers. Keep out of reach of children. Oxidising and spontaneously flammable products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas..

Personal Protective Equipment

Respiratory protection:	No personal respiratory protective equipment normally required.
Hand protection:	Preventive skin protection
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect..
Eye protection:	Avoid contact with eyes..
Hygiene measures:	Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Grease	Appearance:	Paste
Color:	White	Odor:	Not significant
Specific gravity:	~ 1.07	Boiling point/range	No information available
Evaporation rate:	Not determined	Vapor density:	Not determined
Vapor pressure:	Not determined	Solubility:	Insoluble.

10. STABILITY AND REACTIVITY

Stability:	No hazards to be especially mentioned
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	None under normal use
Materials to avoid:	Strong oxidising agents.
Conditions to avoid:	Heat, flames and sparks..

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available
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12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulative potential:	No information available.
Ecotoxicity effects:	No data available.
Aquatic toxicity:	No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	In accordance with local and national regulations.
Contaminated packaging:	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

14. TRANSPORT INFORMATION

DOT

Proper shipping name: Not regulated by DOT

TDG (Canada)

IMO / IMDG

ICAO

IATA

15. REGULATORY INFORMATION

TSCA

TSCA: Listed in TSCA

U.S. Regulations:

Zinc sulfide

SARA 313 Threshold: Zinc compound (15 - 25%)
NJRTK: Substance no. 3012 Listed.
ILRTK: Listed.
CTRTRK: Listed.

Sara (311, 312) hazard class:

Canada

WHMIS hazard class:
Non-controlled

16. OTHER INFORMATION

NFPA Health: 1 Flammability: 1 Instability: 0

HMIS Health: 1 Flammability: 1 Physical Hazard: 0

Reason for revision: Not applicable
Prepared by: Health & Safety

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Section 1. Identification

Product name Optitemp SW 1
SDS # 466793
Historic SDS #: 62004
Code 466793-US17

Relevant identified uses of the substance or mixture and uses advised against

Product use Grease for industrial applications.
 For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Manufacturer Castrol Industrial North America, Inc.
 150 W. Warrenville Road
 Naperville, IL 60563

Supplier Castrol Industrial North America, Inc.
 150 W. Warrenville Road
 Naperville, IL 60563
 Product Information: +1-877-641-1600

EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

Section 2. Hazards identification

OSHA/HCS status This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture Not classified.

GHS label elements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Hazards not otherwise classified Defatting to the skin.
 Note: High Pressure Applications
 Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
 See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

Section 3. Composition/information on ingredients

Synthetic lubricant. Thickening agent.

Substance/mixture Mixture

Ingredient name	CAS number	%
Zinc dialkyl dithiophosphate	68457-79-4	≥1 - <3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discolored and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.
Specific treatments	No specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet.

Specific hazards arising from the chemical

Hazardous combustion products	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include the following: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides
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Product name Optitemp SW 1

Product code 466793-US17

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Version 1 **Date of issue** 03/10/2015.

Format US

Language ENGLISH

(US)

(ENGLISH)

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. If emergency personnel are unavailable, contain spilled material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

This product does not have any assigned OELs.

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		(US)	(ENGLISH)	

Section 8. Exposure controls/personal protection

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

Body protection

Use of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Section 9. Physical and chemical properties

Appearance

Physical state	Grease
Color	Beige. [Light]
Odor	Mild.
Odor threshold	Not available.
pH	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Open cup: >200°C (>392°F) [Cleveland.]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Based on - Physical state
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Density	<1000 kg/m ³ (<1 g/cm ³) at 15.6°C
Solubility	insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Information on the likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation.
<u>Potential acute health effects</u>	
Eye contact	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Inhalation	Vapor inhalation under ambient conditions is not normally a problem due to low vapor pressure.
Ingestion	No known significant effects or critical hazards.

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Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Inhalation	No specific data.
Ingestion	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Long term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Potential chronic health effects

General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	Not available.
Mobility	Non-volatile. Grease. insoluble in water.

Other adverse effects

No known significant effects or critical hazards.

Product name Optitemp SW 1

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Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name		-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

Not applicable.

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Zinc dialkyl dithiophosphate	68457-79-4	1 - 1.495
Supplier notification	Zinc dialkyl dithiophosphate	68457-79-4	1 - 1.495

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Product name Optitemp SW 1

Product code 466793-US17

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(US)

(ENGLISH)

Section 15. Regulatory information

State regulations

Massachusetts	None of the components are listed.
New Jersey	The following components are listed: ZINC compounds
Pennsylvania	The following components are listed: ZINC COMPOUNDS
California Prop. 65	WARNING: This product contains a chemical known to the State of California to cause cancer. arsenic WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. lead; Cadmium (Non-pyrophoric)

Other regulations

Australia inventory (AICS)	All components are listed or exempted.
Canada inventory	At least one component is not listed.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan inventory (CSNN)	Not determined.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0
Personal protection	X

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



History

Date of issue/Date of revision	03/10/2015.
Date of previous issue	No previous validation.
Key to abbreviations	ACGIH = American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS Number = Chemical Abstracts Service Registry Number GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

Product name	Optitemp SW 1	Product code	466793-US17	Page:	8/9
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					(ENGLISH)

Section 16. Other information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit

TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

▼ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

#6



MATERIAL SAFETY DATA SHEET

Print date: 13-Aug-2010

Revision Number: 1

Revision date: 13-Aug-2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Klüberplex BEM 41-132
Article Code: 020256
Synonyms: No information available
Chemical characterisation: Not applicable..

Supplier:
 Klüber Lubrication North America L.P.
 32 Industrial Drive
 Londonderry, NH 03053
 (603) 647-4104
 Fax (603) 647-4106

Emergency telephone number CHEMTREC: 1-800-424-9300 International: (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	ACGIH (TWA mg/m ³):	OSHA (TWA mg/m ³):
Mineral oil		None	None
Synthetic hydrocarbon oil		None	None
Special lithium soap		None	None

3. HAZARDS IDENTIFICATION

Properties affecting health: Harmful if swallowed

Principle routes of exposure: Skin.

Skin contact: Substance may cause slight skin irritation.

Eye contact: Contact with eyes may cause irritation.

Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.

Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

Eye contact: Flush eye with water for 15 minutes. If symptoms persist, call a physician.

Ingestion: Do not induce vomiting. Consult a physician.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO₂), Dry chemical, Dry sand, Water spray mist or foam

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

Specific hazards: Burning produces irritant fumes In the event of fire and/or explosion do not breathe fumes

Unusual hazards: No hazards resulting from the material as supplied

Specific methods: Water mist may be used to cool closed containers. Standard procedure for chemical fires.

Flash point: Not applicable.

Method: Cleveland Open Cup

Autoignition temperature: Not determined..

Flammability Limits in Air:

Lower	No information available
Upper	No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods for cleaning up: Scrape-up. Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions:

Safe handling advice:

No special technical protective measures required. Spilling onto the container's outside will make container slippery. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical measures/storage conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labelled containers. Keep out of reach of children.

Incompatible products:

Oxidising and spontaneously flammable products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas..

Personal Protective Equipment

Respiratory protection:	No personal respiratory protective equipment normally required.
Hand protection:	Preventive skin protection
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect..
Eye protection:	Avoid contact with eyes..
Hygiene measures:	Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Grease	Appearance:	Paste
Color:	Yellow	Odor:	Not significant
Specific gravity:	~ 0.9	Boiling point/range	No information available
Evaporation rate:	Not determined	Vapor density:	Not determined
Vapor pressure:	Not determined	Solubility:	Insoluble.

10. STABILITY AND REACTIVITY

Stability:	No hazards to be especially mentioned
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	None under normal use
Materials to avoid:	Strong oxidising agents.
Conditions to avoid:	Heat, flames and sparks..

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
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12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulative potential:	No information available.
Ecotoxicity effects:	No data available.
Aquatic toxicity:	No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	In accordance with local and national regulations.
Contaminated packaging:	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper shipping name:	Not regulated by DOT
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TDG (Canada)

14. TRANSPORT INFORMATION

IMO / IMDG

ICAO

IATA

15. REGULATORY INFORMATION

TSCA

TSCA: Listed in TSCA

U.S. Regulations:

Sara (311, 312) hazard class:

Canada

WHMIS hazard class:
Non-controlled

16. OTHER INFORMATION

<u>NFPA</u>	Health: 1	Flammability: 1	Instability: 0
<u>HMIS</u>	Health: 1	Flammability: 1	Physical Hazard: 0

Reason for revision: Not applicable
Prepared by: Health & Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Klüber does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage maybe required. Klüber assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.



Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Shell Rhodina Grease BBZ
Uses : Automotive and industrial grease.

Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX 77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number
Spill Information : 877-242-7400
Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oils, polyalphaolefins and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Brown. Semi-solid at ambient temperature. Slight hydrocarbon.
Health Hazards	: High-pressure injection under the skin may cause serious damage including local necrosis.
Safety Hazards	: Not classified as flammable but will burn.
Environmental Hazards	: Not classified as dangerous for the environment.

Health Hazards : Not expected to be a health hazard when used under normal conditions.

Health Hazards
Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Other Information : High-pressure injection under the skin may cause serious damage including local necrosis. Used grease may contain harmful impurities.

Signs and Symptoms : Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Material Safety Data Sheet

- Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.
- Environmental Hazards** : Not classified as dangerous for the environment.
- Additional Information** : Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

- General Information** : Not expected to be a health hazard when used under normal conditions.
- Inhalation** : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
- Skin Contact** : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
- Eye Contact** : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
- Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Advice to Physician** : Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : > 200 °C / 392 °F (COC)
- Upper / lower Flammability or Explosion limits** : Typical 1 - 10 %(V)(based on mineral oil)
- Auto ignition temperature** : > 320 °C / 608 °F
- Specific Hazards** : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Material Safety Data Sheet

- Suitable Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media : Do not use water in a jet.
Protective Equipment for Firefighters : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

- Protective measures** : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Clean Up Methods : Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

7. HANDLING AND STORAGE

- General Precautions** : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials : For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials : PVC.
Additional Information : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Mist.)		5 mg/m3	
Oil mist, mineral	ACGIH	STEL(Mist.)		10 mg/m3	

Material Safety Data Sheet

- Additional Information** : Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur.
- Exposure Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
- Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- Respiratory Protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].
- Hand Protection** : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye Protection** : Wear safety glasses or full face shield if splashes are likely to occur.
- Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- Monitoring Methods** : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
- Environmental Exposure Controls** : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Safety Data Sheet

Appearance	: Brown. Semi-solid at ambient temperature.
Odour	: Slight hydrocarbon.
pH	: Not applicable.
Initial Boiling Point and Boiling Range	: Data not available
Dropping point	: Typical 140 °C / 284 °F
Flash point	: > 200 °C / 392 °F (COC)
Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Density	: Typical 900 kg/m ³ at 15 °C / 59 °F
Water solubility	: Negligible.
n-octanol/water partition coefficient (log Pow)	: > 6 (based on information on similar products)
Kinematic viscosity	: Not applicable.
Vapour density (air=1)	: > 1 (estimated value(s))
Evaporation rate (nBuAc=1)	: Data not available

10. STABILITY AND REACTIVITY

Stability	: Stable.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Materials to Avoid	: Strong oxidising agents.
Hazardous Decomposition Products	: Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.
Mutagenicity	: Not considered a mutagenic hazard.
Carcinogenicity	: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	: Not expected to be a hazard.

Material Safety Data Sheet

Additional Information : Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Mobility : Semi-solid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Persistence/degradability : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation : Contains components with the potential to bioaccumulate.

Other Adverse Effects : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Container Disposal : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

Material Safety Data Sheet

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS	All components listed or polymer exempt.
TSCA	All components listed.
DSL	All components listed.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity)	: 0, 1, 0
MSDS Version Number	: 1.0
MSDS Effective Date	: 10/03/2008
MSDS Revisions	: A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Regulation	: The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Material Safety Data Sheet

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

This is what was in the turbines, it has been switched to Castrol Optitemp SW1

Shell Gadus S2 V220 2
MSDS# DEU003514
Version 1.0
Effective Date 02/28/2011
According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Shell Gadus S2 V220 2
Uses : Automotive and industrial grease.

Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX 77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number
Spill Information : 877-242-7400
Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

A lubricating grease consisting of highly-refined mineral oil and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odour	: Brown. Semi-solid at ambient temperature. Slight hydrocarbon.
Health Hazards	: High-pressure injection under the skin may cause serious damage including local necrosis.
Safety Hazards	: Not classified as flammable but will burn.
Environmental Hazards	: Not classified as dangerous for the environment.

Health Hazards : Not expected to be a health hazard when used under normal conditions.

Health Hazards Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.

Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Low toxicity if swallowed.

Other Information : High-pressure injection under the skin may cause serious damage including local necrosis. Used grease may contain harmful impurities.

Signs and Symptoms : Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Material Safety Data Sheet

- Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.
- Environmental Hazards** : Not classified as dangerous for the environment.
- Additional Information** : Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

- General Information** : Not expected to be a health hazard when used under normal conditions.
- Inhalation** : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
- Skin Contact** : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
- Eye Contact** : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
- Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
- Advice to Physician** : Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : > 180 °C / 356 °F (COC)
- Upper / lower Flammability or Explosion limits** : Typical 1 - 10 %(V)(based on mineral oil)
- Auto ignition temperature** : > 320 °C / 608 °F
- Specific Hazards** : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Material Safety Data Sheet

- Suitable Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable Extinguishing Media** : Do not use water in a jet.
- Protective Equipment for Firefighters** : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

- Protective measures** : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Clean Up Methods** : Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

7. HANDLING AND STORAGE

- General Precautions** : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Handling** : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
- Storage** : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
- Recommended Materials** : For containers or container linings, use mild steel or high density polyethylene.
- Unsuitable Materials** : PVC.
- Additional Information** : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Inhalable fraction.)		5 mg/m3	
Oil mist, mineral	OSHA Z1	PEL(Mist.)		5 mg/m3	

Material Safety Data Sheet

Oil mist, mineral	OSHA Z1A	TWA(Mist.)		5 mg/m3	
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Additional Information : Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur. Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.

Exposure Controls : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Personal Protective Equipment : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

Hand Protection : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection : Wear safety glasses or full face shield if splashes are likely to occur.

Protective Clothing : Skin protection not ordinarily required beyond standard issue work clothes.

Monitoring Methods : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Environmental Exposure Controls : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

Material Safety Data Sheet

environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Brown. Semi-solid at ambient temperature.
Odour	: Slight hydrocarbon.
pH	: Not applicable.
Initial Boiling Point and Boiling Range	: Data not available
Dropping point	: > 180 °C / 356 °F
Flash point	: > 180 °C / 356 °F (COC)
Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Specific gravity	: Typical 0.9 at 15 °C / 59 °F
Density	: Typical 900 kg/m ³ at 15 °C / 59 °F
Water solubility	: Negligible.
n-octanol/water partition coefficient (log Pow)	: > 6 (based on information on similar products)
Kinematic viscosity	: Not applicable.
Vapour density (air=1)	: > 1 (estimated value(s))
Evaporation rate (nBuAc=1)	: Data not available

10. STABILITY AND REACTIVITY

Stability	: Stable.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Materials to Avoid	: Strong oxidising agents.
Hazardous Decomposition Products	: Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.
Mutagenicity	: Not considered a mutagenic hazard.
Carcinogenicity	: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the

Material Safety Data Sheet

International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

- Reproductive and Developmental Toxicity** : Not expected to be a hazard.
- Additional Information** : Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

- Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
- Mobility** : Semi-solid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
- Persistence/degradability** : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
- Bioaccumulation** : Contains components with the potential to bioaccumulate.
- Other Adverse Effects** : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Material Safety Data Sheet

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS	All components listed or polymer exempt.
TSCA	All components listed.
DSL	All components listed.

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating (Health, : 0, 1, 0

Material Safety Data Sheet

- Fire, Reactivity)**
MSDS Version Number : 1.0
- MSDS Effective Date** : 02/28/2011
- MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Regulation** : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- MSDS Distribution** : The information in this document should be made available to all who may handle the product.
- Disclaimer** : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

DELTA COUNTY BOARD OF COMMISSIONERS

ADMINISTRATION OFFICE
310 LUDINGTON STREET
ESCANABA, MICHIGAN 49829
PHONE: 906-789-5100
FAX: 906-789-5197



October 14, 2015

UP State Fair Authority
230 Ludington Street
Escanaba, MI 49829

Dear Authority Members,

On September 17, 2015, the Board of Commissioners authorized me to send a letter to you encouraging the U.P State Fair Authority to require ambulance coverage at MMA events. On September 24, Vicki Micheau shared a letter from MMA promoter Chris Skogulund stating that his company has a licensed physician and two licensed EMT's on hand during events.

At the October 13, 2015 regular Board Meeting, Commissioner Dave Moyle made a motion, which was unanimously approved, that the U.P State Fair Authority still consider requiring standing ambulance coverage at these events. Commissioner Moyle and the Board feel that despite the presence of one physician and two EMT's, the potential delay in hospital transportation in the event of an emergency is a danger to the individuals involved and a liability to the County. Please consider adding the item to the agenda at your next meeting.

Sincerely,

A handwritten signature in black ink that reads "Ryan Bergman".

Ryan Bergman
Director of Administration

DELTA COUNTY BOARD OF COMMISSIONERS

ADMINISTRATION OFFICE
310 LUDINGTON STREET
ESCANABA, MICHIGAN 49829
PHONE: 906-789-5100
FAX: 906-789-5197



October 21, 2015

Mr. William Charon
4645 US 2 & 41
Escanaba, MI 49829

RE: Building Authority

Dear Mr. Charon:

Congratulations on your recent re-appointment to the Building Authority.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

The Delta County Board of Commissioners looks forward to working with you in the upcoming years.

Sincerely,

A handwritten signature in black ink that reads "Mary K. Harrington".

Mary K. Harrington, Chair
Delta County Board of Commissioners

Enclosure

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October 21, 2015

Mr. Dennis Wiltzius
9427 Stagecoach Q.5 Ave
Gladstone, MI 49878

RE: Building Authority

Dear Mr. Wiltzius:

Congratulations on your recent re-appointment to the Building Authority.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Sincerely,



Mary K. Harrington, Chair
Delta County Board of Commissioners

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October 21, 2015

Mr. Tom Pairolero
1109 Minneapolis Ave
Gladstone, MI 49837

RE: Building Authority

Dear Mr. Pairolero:

Congratulations on your recent re-appointment to the Building Authority.

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Mary K. Harrington, Chair
Delta County Board of Commissioners

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October 21, 2015

Mr. John Winneroski
408 S 4th St
Escanaba, MI 49829

RE: Building Authority

Dear Mr. Winneroski:

Congratulations on your recent re-appointment to the Building Authority.

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October 21, 2015

Mr. Tom Trudgeon
PO Box 1004
Escanaba, MI 49829

RE: Building Authority

Dear Mr. Trudgeon:

Congratulations on your recent re-appointment to the Building Authority.

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Delta County Board of Commissioners

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October 21, 2015

Ms. Vicki Schwab
230 Ludington St
Escanaba, MI 49829

RE: Airport Advisory Board

Dear Ms. Schwab:

Congratulations on your recent re-appointment to the Airport Advisory Board.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Mary K. Harrington, Chair
Delta County Board of Commissioners

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October 21, 2015

Mr. Will Carne Jr
5467 Portage Point 11.4 Lane
Escanaba, MI 49829

RE: Airport Advisory Board

Dear Mr. Carne:

Congratulations on your recent re-appointment to the Airport Advisory Board.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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October 21, 2015

Mr. Harold Schermer
5745 S Oak Park 17 Pt 5 Dr
Wells, MI 49894

RE: Construction and Zoning Board of Appeals

Dear Mr. Schermer:

Congratulations on your recent re-appointment to the
Construction and Zoning Board of Appeals.

Enclosed is an Oath of Office. Please sign this document in
front of a Notary Public and return it to the County Clerk's Office, at
the Delta County Courthouse, as soon as possible. For your convenience,
a Notary Public is located in the Clerk's office during the hours of 8:00
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FAX: 906-789-5197



October 21, 2015

Mr. Michael Parrett
9444 Co 513 T Road
Rapid River, MI 49878

RE: Construction and Zoning Board of Appeals

Dear Mr. Parrett:

Congratulations on your recent re-appointment to the Construction and Zoning Board of Appeals.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Sincerely,

A handwritten signature in black ink that reads "Mary K. Harrington". The signature is written in a cursive style.

Mary K. Harrington, Chair
Delta County Board of Commissioners

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October 21, 2015

Ms. Margaret Carignan
602 S 16th St
Escanaba, MI 49829

RE: Board of Elections Canvassers

Dear Ms. Carignan:

Congratulations on your recent re-appointment to the Board of Elections Canvassers.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Mary K. Harrington, Chair
Delta County Board of Commissioners

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FAX: 906-789-5197



October 21, 2015

Ms. Sharyn Caszatt
2600 S Hill RD, #13
Gladstone, MI 49837

RE: Board of Elections Canvassers

Dear Ms. Caszatt:

Congratulations on your recent re-appointment to the Board of Elections Canvassers.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Sincerely,



Mary K. Harrington, Chair
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October 21, 2015

Mr. Russell Nelson
14733 Orchard Lane
Rock, MI 49880

RE: Construction and Zoning Board of Appeals

Dear Mr. Nelson:

Congratulations on your recent re-appointment to the Construction and Zoning Board of Appeals.

Enclosed is an Oath of Office. Please sign this document in front of a Notary Public and return it to the County Clerk's Office, at the Delta County Courthouse, as soon as possible. For your convenience, a Notary Public is located in the Clerk's office during the hours of 8:00 a.m. to 4:00 p.m., Monday thru Friday.

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Sincerely,

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Mary K. Harrington, Chair
Delta County Board of Commissioners

Enclosure

**Menominee-Delta-Schoolcraft
Community Action Agency**

**GOVERNING BOARD MEETING
Thursday, September 10, 2015
511 First Avenue North, Escanaba MI
12:30 p.m.**

MINUTES

Chair Wigand called the meeting to order at 12:31 p.m. A quorum was noted with the following in attendance:

MEMBERS PRESENT

Tom Lippens, Delta
Myra Croasdell, Delta
John Stapleton, Schoolcraft
Lee Robbert, Schoolcraft
Clyde Thoune, Menominee
Bernie Lang, Menominee
Susan Kleikamp, Menominee
Geri Nelson, Delta
Karen Wigand, Delta
Dave Moyle, Delta
Mari Negro, Menominee
Ken Penokie, Delta
Craig Reiter, Schoolcraft

OTHERS PRESENT

Bill Dubord, Executive Director
Julie Moberg, Executive Director Trainee
Myra Heslip, ECP Director
Kris Thibeault, Finance Director
Connie Maule, SCP Director
Theresa Nelson, RSVP Director
Angela Gardner, ECP Family Partnership Mgr.
Cathy Pearson, Executive Assistant
Peggy Ramsden, FGP Director
Lannie Berg, Welcome Newborns Coordinator
Joe Dehlin, Weatherization Director
Elsie Stafford, Bishop Noa Home Director
Sister Rosalie, Bishop Noa Home
Randy Daigneault, Perspectives Director

MEMBERS ABSENT

Susan Phillips, excused
Omer Doran, excused
Dave Anthony
Kristi Wood

ACCEPTANCE OF JULY 23, 2015 GOVERNING BOARD MINUTES

Members received a draft of the July 23, 2015 Governing Board minutes for their review. ***THERE WERE NO QUESTIONS OR COMMENTS AND THEY WERE APPROVED WITH A MOTION FROM DAVE MOYLE, SECONDED BY TOM LIPPENS; MOTION CARRIED.***

FINANCE COMMITTEE REPORT

Ms. Wigand called on Treasurer, Susan Kleikamp, for the report. Ms. Kleikamp reported that the Finance Committee met today and reviewed the CAA June and July credit card charges. They also reviewed and recommend approval of the July Accounts Payable Schedule which was done ***WITH A MOTION FROM MR. MOYLE, SECONDED BY BERNIE LANG; MOTION CARRIED. (see attachment "A")***

PERSONNEL COMMITTEE REPORT

The Chair called on Geri Nelson who reported that the Personnel Committee met on 8/18/15 to continue work on revising the personnel policies. She noted they will be having another meeting next week to finalize the revised policies revision for review and approval by the full board in October or November. Additionally, the committee will be reviewing Julie Moberg's three month evaluation. ***THE PERSONNEL COMMITTEE***

REPORT WAS ACCEPTED WITH A MOTION FROM MR. STAPLETON, SECONDED BY MARI NEGRO; MOTION CARRIED.

DISCUSSION ON WEBINAR TRAINING ON ELIGIBILITY

The Governing Board received the ERSEA training webinar link and hardcopy information for their review. The members of the Governing Board signed a statement to reflect this. There were no questions and Susan Kleikamp noted that the webinar was very interesting.

ACCEPTANCE OF EARLY CHILDHOOD PROGRAM MONTHLY REPORT 8/27/15

Members received a copy of the ECP monthly report dated 8/27/15 for their review. **IT WAS ACCEPTED WITH A MOTION FROM DAVE MOYLE, SECONDED BY GERI NELSON; MOTION CARRIED.**

AUTHORIZATION FOR JULIE MOBERG TO SIGN ALL CONTRACTS AND REQUIRED DOCUMENTS EFFECTIVE 10/1/2015

MR. LIPPENS MOVED TO AUTHORIZE JULIE MOBERG TO SIGN ALL CONTRACTS AND REQUIRED DOCUMENTS IN PLACE OF BILL DUBORD EFFECTIVE 10/1/2015, SUPPORTED BY SUSAN KLEIKAMP; MOTION CARRIED.

RESOLUTION TO REPLACE BILL DUBORD WITH JULIE MOBERG ON ALL AGENCY BANKING ACCOUNTS

MR. LIPPENS MOVED TO REPLACE BILL DUBORD WITH JULIE MOBERG ON ALL AGENCY BANKING ACCOUNTS, SECONDED BY JOHN STAPLETON; MOTION CARRIED.

RESOLUTION NAMING SUSAN KLEIKAMP AS TREASURER ON ALL BANK DOCUMENTS AND CHECK MICR

DAVE MOYLE MOVED TO PASS A RESOLUTION NAMING SUSAN KLEIKAMP AS TREASURER ON ALL BANK DOCUMENTS AND CHECK MICR, SUPPORTED BY JOHN STAPLETON; MOTION CARRIED.

EXECUTIVE DIRECTOR'S REPORT

Chair Wigand called on the Bill Dubord who reminded the members that last year we were looking into the feasibility of purchasing the Menominee Catholic School for our Early Childhood Program and possibly other agency programs. The homeless shelter ended up buying it which turned out to be a good thing as there was a great deal of remodeling required. He noted that instead we did some minor remodeling in the classrooms at the Evergreen School where we are currently housed and will be doing some minor upgrades to the office space.

The Executive Director noted that the Early Childhood Program staff are back to work and it was a relatively smooth year of staffing. Classes start 10/14 and we are fully enrolled. Bill informed the board that Myra has been doing a great job as the Early Childhood Program Director. **THE EXECUTIVE DIRECTOR'S REPORT WAS ACCEPTED WITH A MOTION FROM MYRA CROASDELL, SECONDED BY GERI NELSON; MOTION CARRIED.**

PUBLIC COMMENT/OTHER BUSINESS

The Chair called on Bill Dubord who reported that the Nominating Committee was scheduled to meet today but the meeting was cancelled because no one could attend. He reported that the board will be asked to approve moving Mari Negro from the Public Sector to the Consumer Sector, representing the media and Ken Penokie from the Private Sector to the Consumer Sector now that we've changed the board size from 21 to 18.

ADJOURNMENT

There being no further business ***THE MEETING ADJOURNED AT 12:50 WITH A MOTION FROM MR. THOUNE, SECONDED BY MR. STAPLETON; MOTION CARRIED.***

THE NEXT MEETING IS THURSDAY, OCTOBER 8, 2015 – FOLLOWED BY AN OPEN HOUSE FOR BILL DUBORD'S RETIREMENT

**FINANCE COMMITTEE MEETING
Thursday, September 10, 2015
11:00 a.m.**

MINUTES

The meeting began at 11:02 a.m. with the following in attendance: Susan Kleikamp, Tom Lippens, John Stapleton, Bernie Lang, Karen Wigand, Bill Dubord, Julie Moberg, Kris Thibeault and Cathy Pearson. Omer Doran, excused.

The committee reviewed the CAA credit card charges for June in the amount of \$889.04 and July for \$4,230.44.

The committee reviewed the HRA credit card charges for June in the amount of \$269.83 and July for \$1323.

Members were given a copy of the June and July Budget vs. Expenditure reports and Kris reviewed them. It was suggested that this be added to the Finance Committee agenda and that a copy be sent out with the board agenda.

The committee reviewed the CAA July Accounts Payable Schedule and **it was approved with a motion from Tom Lippens, seconded by John Stapleton; motion carried.**

The committee reviewed the HRA July Accounts Payable Schedules and **they were approved with a motion from Bernie Lang, supported by John Stapleton; motion carried.**

Bill indicated that it is the time of year to discuss wages and fringes. He noted that we have been told there will be a slight increase in health insurance premiums for HRA and a slight reduction for CAA, but the maximum out-of-pocket may be changed because BC/BS has discontinued our current plan. We are doing some further checking into options and clarification in this regard.

Bill also noted that the Finance Committee will probably be asked to recommend to the board a 2% or \$.25/hour increase (whichever is greater) for HRA staff not on the senior citizen chart. Additionally, staff are looking into changing the timeframe for wage increases for the in-home staff as we have an extremely difficult time retaining them. There is also one exception that may be requested. There was discussion on the fact the minimum wage is increasing again and it is becoming more difficult to remain competitive with fast food places, etc.

The committee was reminded that the CAA employees' raises are handled through the cost of living adjustments that come from the Dept. Health & Human Services usually in the spring of the year. The increase is made retroactive to the start of the ECP fiscal year (Nov. 1st) and the funding increase is made a permanent part of the grant award.

At the next meeting the committee will also be asked to recommend to the board to continue offering up to a 5% match for our 403 b retirement plan.

It was noted that the next Finance Committee meeting will be held on Tuesday, October 6th at 11:00 a.m.

There being no other business the meeting adjourned at noon **with a motion from Tom Lippens, seconded by John Stapleton; motion carried.**

THE FINANCE COMMITTEE HAS REVIEWED THE JULY 2015 ACCOUNTS PAYABLE SCHEDULES FOR MDS COMMUNITY ACTION AGENCY. WE HAVE DETERMINED THAT EXPENDITURES ARE REASONABLE AND PROPERLY CHARGED WITHIN BUDGETARY RESTRICTIONS AS FOLLOWS:

HEAD START	\$	88,616
EARLY HEAD START		50,869
EARLY-ON CHILDHOOD		452
GSRP		2,108
ASSET & LIABILITY ACCOUNTS		55,523

TOTAL \$ 197,569

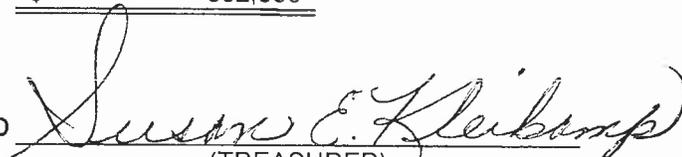
SIGNED Susan E. Kleibomp
(TREASURER)

DATE 9-10-2015

THE FINANCE COMMITTEE HAS REVIEWED THE JULY 2015 ACCOUNTS PAYABLE SCHEDULES FOR HUMAN RESOURCES AUTHORITY. WE HAVE DETERMINED THAT EXPENDITURES ARE REASONABLE AND PROPERLY CHARGED WITHIN BUDGETARY RESTRICTIONS AS FOLLOWS:

SENIOR CITIZENS	\$	119,788
VOLUNTEER PROGRAMS		32,341
NUTRITION		83,751
STATE & LOCAL PROGRAMS		89,895
ENERGY AND HOUSING		15,125
ASSET & LIABILITY ACCOUNTS		51,450
TOTAL	\$	392,350

SIGNED


(TREASURER)

DATE

9-10-2015

**Menominee-Delta-Schoolcraft
Human Resources Authority**

**GOVERNING BOARD MEETING
Thursday, September 10, 2015
511 First Avenue North, Escanaba MI
12:45 p.m.**

MINUTES

Chair Wigand called the meeting to order at 12:51 p.m. A quorum was noted with the following in attendance:

MEMBERS PRESENT

Tom Lippens, Delta
Myra Croasdell, Delta
John Stapleton, Schoolcraft
Lee Robbert, Schoolcraft
Clyde Thoune, Menominee
Bernie Lang, Menominee
Susan Kleikamp, Menominee
Geri Nelson, Delta
Karen Wigand, Delta
Dave Moyle, Delta
Mari Negro, Menominee
Ken Penokie, Delta

OTHERS PRESENT

Bill Dubord, Executive Director
Julie Moberg, Executive Director Trainee
Myra Heslip, ECP Director
Kris Thibeault, Finance Director
Connie Maule, SCP Director
Theresa Nelson, RSVP Director
Angela Gardner, ECP Family Partnership Mgr.
Cathy Pearson, Executive Assistant
Peggy Ramsden, FGP Director
Lannie Berg, Welcome Newborns Coordinator
Joe Dehlin, Weatherization Director
Elsie Stafford, Bishop Noa Home Director
Sister Rosalie, Bishop Noa Home
Randy Daigneault, Perspectives Director
Craig Reiter, Schoolcraft Co. Commissioner

MEMBERS ABSENT

Susan Phillips, excused
Omer Doran, excused
Dave Anthony
Kristi Wood

ACCEPTANCE OF JULY 23, 2015 GOVERNING BOARD MINUTES

Members received a draft of the July 23, 2015 Governing Board minutes for their review. ***THERE WERE NO QUESTIONS OR COMMENTS AND THEY WERE APPROVED WITH A MOTION FROM LEE ROBBERT, SECONDED BY GERI NELSON; MOTION CARRIED.***

FINANCE COMMITTEE REPORT

Ms. Wigand called on Treasurer, Susan Kleikamp, for the report. Ms. Kleikamp reported that the Finance Committee met today and reviewed the HRA June and July credit card charges. They also reviewed and recommend approval of the July Accounts Payable Schedules, which was done ***WITH A MOTION FROM MR. PENOKIE, SECONDED BY JOHN STAPLETON; MOTION CARRIED. (see attachment "A")*** Ms. Wigand thanked Susan Kleikamp and noted that she has done a good job serving as Treasurer.

PERSONNEL COMMITTEE REPORT

The Chair called on Geri Nelson who reported that the Personnel Committee met on 8/18/15 to continue work on revising the personnel policies. She noted they will be having another meeting next week to finalize the

revised policies revision for review and approval by the full board in October or November. Additionally, the committee will be reviewing Julie Moberg's three month evaluation. **THE PERSONNEL COMMITTEE REPORT WAS ACCEPTED WITH A MOTION FROM JOHN STAPLETON, SECONDED BY MYRA CROASDELL; MOTION CARRIED.**

UPDATE ON BISHOP NOA HOME MEMORY CLINIC

Karen Wigand called on Sally Kidd, Senior Services Director, who introduced Elsie Stafford and Sister Rosalie from the Bishop Noa Home and Randy Daigneault who runs our Perspectives Adult Day Care Program. Ms. Stafford told the board that she is very grateful for this collaboration between Community Action Agency, the Sisters of St. Paul DeChartes and Pat Abrahamson-Besse, who donated over \$500,000 to build and help furnish the Memory Clinic (that will be named the Gary Abrahamson Memory Clinic after her son). It is a separate private non-profit entity that will be staffed by our employees from Perspectives Adult Day Care. There will be another fundraiser next April 7th. It was noted that the plan is to have the facility completed by this November 15th. It is hoped to have a grand opening sometime in December. It was noted that there is no religious affiliation required to receive services. Randy and his staff were commended for the good work that they do.

ACCEPTANCE OF MONITORING REPORTS

Members received copies of the following monitoring reports for their review:

- DHS Monitoring of Weatherization Program dated 8/10/15
- DHS Monitoring of Organizational Standards dated 8/20/15
- DHS Monitoring of DOE/WX, DOE/LIHEAP, CSBG-D, LCA, LCA/LIHEAP & LCA-S dated 8/19/15

There were no questions **AND THEY WERE ACCEPTED WITH A MOTION FROM MR. STAPLETON, SUPPORTED BY MR. MOYLE; MOTION CARRIED.**

ACCEPTANCE OF POLICY ADVISORY COMMITTEE MINUTES

Members received copies of the PAC minutes for their review:

- 7/14/15 (Mid-Co.) Foster Grandparent Program PAC minutes
- 8/7 (Men) & 8/27/15 (School) Senior Companion Program PAC minutes
- 4/30 (Escanaba), 8/19 (Menominee) & 9/1/15 (Mid-Co.) Senior Center PAC minutes

There were no question **AND THE WERE ACCEPTED WITH A MOTION FROM GERI NELSON, SECONDED BY TOM LIPPENS; MOTION CARRIED.**

ACCEPTANCE OF PROGRAM MONTHLY REPORTS

Members received copies of the various program monthly reports for their review **AND THEY WERE ACCEPTED WITH A MOTION FROM MR. STAPLETON, SECONDED BY DAVE MOYLE; MOTION CARRIED.**

AUTHORIZATION FOR JULIE MOBERG TO SIGN ALL CONTRACTS AND REQUIRED DOCUMENTS EFFECTIVE 10/1/2015

MR. LIPPENS MOVED TO AUTHORIZE JULIE MOBERG TO SIGN ALL CONTRACTS AND REQUIRED DOCUMENTS IN PLACE OF BILL DUBORD EFFECTIVE 10/1/2015, SUPPORTED BY DAVE MOYLE; MOTION CARRIED.

RESOLUTION TO REPLACE BILL DUBORD WITH JULIE MOBERG ON ALL AGENCY BANKING ACCOUNTS

MR. PENOKIE MOVED TO REPLACE BILL DUBORD WITH JULIE MOBERG ON ALL AGENCY BANKING ACCOUNTS, SECONDED BY JOHN STAPLETON; MOTION CARRIED.

RESOLUTION NAMING SUSAN KLEIKAMP AS TREASURER ON ALL BANK DOCUMENTS AND CHECK MICR

KEN PENOKIE MOVED TO PASS A RESOLUTION NAMING SUSAN KLEIKAMP AS TREASURER, REPLACING DAN LAFOILLE, ON ALL BANK DOCUMENTS AND CHECK MICR, SUPPORTED BY TOM LIPPENS; MOTION CARRIED.

EXECUTIVE DIRECTOR'S REPORT

Karen Wigand called on the Executive Director who indicated that we have revised our travel vouchers and they require a signature at the bottom of the voucher, which is different than what members previously received.

Mr. Dubord noted that we have had a vacancy in the Menominee County Consumer Sector for quite some time. If anyone has any thoughts on an organization/person that would be appropriate to fill this vacancy, please let us know.

Bill called on Julie Moberg who introduced Lannie Berg, Coordinator for the Welcome Newborns Program that the agency recently agreed to house. Ms. Berg thanked the members and indicated she had a really good feeling coming into our office.

Julie reported that she has sent surveys to all of our staff as part of the Strategic Planning process. The next step will be a face-to-face meeting with the board and program directors. Information will be mailed to all directors and board members prior to the Strategic Planning session to be held on **Thursday, October 15th from 8:30-2:30** in the conference room at 511 First Ave. No. Lunch will be served and participation greatly appreciated.

The Executive Director called on Cathy Pearson who announced that we will be having an open house following the board meeting on October 8th to celebrate Bill's upcoming retirement and we hope members can stay a bit after the meeting to extend their well wishes to Bill.

MR. MOYLE MOVED TO ACCEPT THE EXECUTIVE DIRECTOR'S REPORT, SECONDED BY MS. NELSON; MOTION CARRIED.

PUBLIC COMMENT/OTHER BUSINESS

The Chair called on Bill Dubord who reported that the Nominating Committee was scheduled to meet today but the meeting was cancelled because no one could attend. He reported that the board will be asked to approve moving Mari Negro from the Public Sector to the Consumer Sector, representing the media and Ken Penokie from the Private Sector to the Consumer Sector now that we've changed the board size from 21 to 18. They will also be asked to approve Mr. Reiter to fill the Schoolcraft Elected Sector vacancy.

HRA Governing Board Minutes
Thursday, September 10, 2015
Page 4

Ms. Wigand called on Clyde Thoun who asked where he could direct comments about the "Matter of Balance" classes being offered at the senior centers. Sally Kidd indicated he could let her know and then she can determine if it should be directed to UPCAP or our senior center staff.

ADJOURNMENT

There being no further business **THE MEETING ADJOURNED AT 1:38 WITH A MOTION FROM MR. MOYLE, SECONDED BY MR. STAPLETON; MOTION CARRIED.**

THE NEXT MEETING IS THURSDAY, OCTOBER 8, 2015 – FOLLOWED BY AN OPEN HOUSE FOR BILL DUBORD'S RETIREMENT

COUNTY OF DELTA

NANCY J. KOLICH
COUNTY CLERK AND REGISTER OF DEEDS
310 LUDINGTON ST.
ESCANABA, MICHIGAN 49829

HOPE I. RUDDEN
CHIEF DEPUTY CLERK

SUSANNE DUBORD
DEPUTY CLERK

PHONE: (906) 789-5105
FAX: (906) 789-5196

WEBSITE:
www.deltacountymi.org
clerk@deltacountymi.org

MINUTES OF THE DELTA COUNTY CONCEALED PISTOL LICENSE BOARD

Date: September 15, 2015

Time: 1:30 p.m.

Place: Circuit Courtroom

VOTING MEMBERS PRESENT: Philip Strom, Prosecuting Attorney
Lt. Todd Tardiff, Sheriff Dept.
Sgt. Joseph Racicot, MSP

The meeting was called to order at 1:30 p.m. by Mr. Strom.

Moved by Mr. Strom and seconded by Lt. Tardiff to approve the minutes of the August 18, 2015 meeting. Motion carried.

Moved by Sgt. Racicot and seconded by Lt. Tardiff to approve a total of 39 applicants as presented. Motion carried.

Moved by Mr. Strom and seconded by Sgt. Racicot to approve Ms. Swisher's renewal. Motion carried

13 new licenses were issued with expiration dates 4 years from their next birthday, 1 with Pistol Free Exemption. List attached.

27 renewal licenses were issued. List attached.

Moved by Sgt. Racicot and seconded by Lt. Tardiff to approve Mr. Glimn's request for Pistol Free Exemption as a deputy for Menominee County. Motion carried..

Moved by Lt. Tardiff and seconded by Sgt. Racicot to deny Mr. Landers application due to pending misdemeanor charges in Marquette County. Motion carried.

Moved by Sgt. Racicot and seconded by Lt. Tardiff to adjourn at 1:51 p.m. Motion carried.

Respectfully Submitted,



Nancy J. Kolich
Delta County Clerk

**Delta County
Department of Health and Human Services Board
305 Ludington Street
Escanaba, MI 49829**

BOARD MEMBERS

**GERALD SMITH, CHAIR
ELAINE BOYNE
DEBBI SPRINGINSGUTH**

DIRECTOR

**RUSSELL K. SEXTON
906-789-7217**

Meeting #979

Date: September 21, 2015

A regular meeting of the Delta County Department of Health and Human Services Board was called to order by Gerald Smith, Board Chair, at 10:00 a.m. Eastern Time. The meeting was held in the Delta County Board Room on the second floor of the State Office Building located at 305 Ludington Street, Escanaba.

Present: Gerald Smith, Board Chair; Debbi Springingsuth, Board Member; Elaine Boyne, Board Member; Russell Sexton, Board Secretary.

APPROVAL OF AGENDA:

A motion to approve the agenda was made by Ms. Boyne and supported by Ms. Springingsuth. Motion passed without opposition.

APPROVAL OF MINUTES:

Minutes of the August 17, 2015, Board Meeting were reviewed and discussed. A motion to accept the minutes was made by Ms. Springingsuth and supported by Ms. Boyne. Motion passed without opposition.

FINANCIAL REPORT:

The financial report for August 2015 was reviewed. There was \$25.20 in expenditures for DHS Board Meeting attendance; leaving a balance of \$45.85.

There were no expenditures from the Child Care Fund with the balance remaining \$3,098.73.

A motion to approve the financial report was made by Ms. Springingsuth and supported by Ms. Boyne. Motion passed without opposition.

DIRECTOR'S REPORT:

Staffing Information: Delta County: There are 5 full time management staff, including 1 tri-county director and four first line supervisors consisting of 1 children's protective services supervisor, 1 foster care supervisor, 1 assistance payments supervisor and 1 general program supervisor who covers some assistance payments staff in Delta County

and an Indian outreach worker in Menominee County. There is 1 tri-county community resource coordinator. There are 5 administrative support staff, 4 general and 1 fiscal. There are 6 children's protective services specialists, 6 foster care and foster home licensing specialists (6 CPS/FC staff are currently in training as new employees), 1 educational planner who serves the entire Upper Peninsula and 1 MiTeam Analyst who covers the Triad. There are 13 assistance payments specialists (two are on a long term military leave, one is on long term medical leave and one position was just vacated). There is currently a hiring freeze in effect for the Assistance Payments and Administrative Support areas. It is unknown when or if the hiring freeze will be lifted.

We have 4 Business Service Center 1 staff stationed in our office, which includes 1 contract specialist, 1 child welfare funding specialist and 2 Adult Services Specialists.

We have 2 central office personnel stationed in our office - both Michigan Rehabilitation Services analysts - 1 full time and 1 part time.

Statewide Director's Meeting Information: Mr. Sexton reviewed his notes from the meeting with the Board Members. He discussed the hiring freeze and other FY16 budget issues. There will be a drug testing pilot for cash assistance cases in the counties of Marquette, Allegan and Clinton that will start on October 1, 2015. This will be a suspicion based drug testing situation only. There will be an in-person county director's meeting in Battle Creek on October 21 and 22, 2015.

Collaborative Issues: No new information was provided.

Business Plan Update:

Operational Funds:

- FY 2015 Operating Funds Expenditure Report: Allocation: \$68,742.00. Year-to-date expenditures: \$24,209.26, which constitutes 35.2% of the allocation expended with 91% of the year elapsed.
- FY 2015 Travel Funds Expenditure Report: Allocation: \$52,332.00. Year-to-date expenditures: \$33,380.69, which constitutes 71.1% of the allocation expended with 91% of the year elapsed.
- Assistance Payments Standard of Promptness: Current data for Delta County is 97%, which puts us 45th in the State. Business Services Center 1 average is 96.81% and State average is 96.51%.
- Family Independence Program Work Participation Rate: Current data is 75% Statewide Goal is 50%.

Miscellaneous:

Total cases, recipients and payments for FIP, FAP, SDA, CDC and SER benefits for January 2015:

- Family Independence Program: 49 cases; 115 recipients; \$15,709.00 in benefits provided.
- Food Assistance Program: 3,095 cases; 5,803 recipients; \$672,122.00 in benefits provided.
- State Disability Assistance: 23 cases; 23 recipients; \$5,684.00 in benefits provided.
- Child Development and Care: 74 cases; 111 recipients; \$25,470.00 in benefits provided.
- State Emergency Relief: 11 cases; \$4,557.00 in benefits provided.
- Unduplicated total: 3,132 cases; 5,850 recipients; \$723,541.00 in benefits provided.

Total Eligible Medicaid Cases and Recipients:

- Family Medicaid: 993 cases; 2,151 recipients
- Other Children < Age 21: 213 cases; 221 recipients
- Pregnant Women & Children Under 19: 1,457 cases; 2,471 recipients
- Non-SSI Aged, Blind & Disabled: 1,018 cases; 1,048 recipients
- SSI Aged, Blind & Disabled: 1,086 cases; 1,086 recipients
- Medicaid Eligible Total: 4,391 cases; 6,943 recipients

Healthy Michigan Plan County Enrollment: 1792+

Assistance Payments caseloads and financial information can be obtained by anyone at any time by logging onto the DHHS public website at www.michigan.gov/dhhs, go to Forms and Publications and search the key word: Green Book. There you can look at past years and specific month data.

DHHS policy for all programs, as well as a variety of other information one might want to know about DHHS can be found at the www.michigan.gov/dhhs site.

Board Member Input/Suggestions: None.

A motion to accept the Director's Report was made by Ms. Springinsguth and supported by Ms. Boyne. Motion passed without opposition.

UNIT REPORT: None

BOARD BUSINESS:

1. **Approval of Vouchers:**
Vouchers were reviewed and a motion to approve all vouchers was made by Ms. Boyne and supported by Ms. Springinsguth. Motion passed without opposition.
2. **MCSSA:** Delta County DHHS Board received a dues bill from Stateside MCSSA in the amount of \$1273.46. The board funds are inadequate to cover this in FY2015 and the Board has not been informed of their allocation for FY2016 as yet, thus there was no motion made in regard to this request. The board members

will be discussing the FY2016 budget with the Delta County Board of Commissioners, as they have throughout this past year in an effort to obtain sufficient funds for MCSSA dues and activities.

NEW BUSINESS: One contract was presented for review:

STOP-16-21001; Tri-County Safe Harbor. Contract is for: STOP (Services, Training, Officers and Prosecutors) Violence Against Women Formula Grants are awarded to states to develop and strengthen the criminal justice system's response to violence against women and to support and enhance services for victims. The STOP Program promotes a coordinated, multidisciplinary approach to improving the criminal justice system's response to violent crimes against women including domestic assault, sexual assault, stalking and dating violence and encourages the development and strengthening of effective law enforcement and prosecution strategies to address violent crimes against women and the development and strengthening of victim services in cases involving violent crimes against women.

Contract is for three years for the amount of: \$72,383.00 from October 1, 2015 through September 30, 2016; \$72,389.00 from October 1, 2016 through September 30, 2017; \$72,389.00 from October 1, 2017 through September 30, 2018; for a cumulative total of \$217,167.00.

A motion to signify a review of the grant was made by Ms. Boyne with support from Ms. Springinsguth. Motion passed without opposition.

PUBLIC COMMENT: There were no public comments.

NEXT MEETING: October 19, 2015 at 10:00 a.m. in the Delta County DHS Board Room.

ADJOURNMENT: Motion to adjourn made by Ms. Boyne and supported by Ms. Springinsguth. Meeting adjourned at 10:25 a.m.



Russell K. Sexton
Board Secretary



Gerald Smith
Chairperson

Pc: DHS Board Members;
Delta County BOC;
Delta County DHS Office File

A G E N D A

DELTA COUNTY DEPARTMENT OF HEALTH AND HUMAN SERVICES BOARD MEETING

305 Ludington Street, Second Floor Conference Room

November 16, 2015, 10:00 A.M. Eastern Time

- A. Approval of agenda**
- B. Approval of October 19, 2015 minutes**
- C. Financial report**
 - 1. Review of vouchers**
- D. Director's Report**
 - 1. Staffing Information**
 - 2. Statewide Directors Meeting/Information**
 - 3. Collaborative Issues/Information**
 - 4. Director's Portfolio Update**
 - 5. Miscellaneous**
 - 6. Board Member Input/Suggestions**
- E. Unit Reports:**
- F. Board business**
 - 1. Approval of vouchers**
 - 2. MCSSA**
- G. New business**
- H. Public comment (5 minute limit per speaker)**
- I. Next meeting – December 21, 2015 – 10:00 AM**
- J. Adjournment**

“What do we believe? Who do we serve? What do we do?”

Mission:

Improving the quality of life in Michigan by providing services to vulnerable children and adults that will strengthen the community and enable families and individuals to move toward independence.

Vision:

Compassion. Protection. Independence.

**DELTA SOLID WASTE MANAGEMENT AUTHORITY
REGULAR MEETING
SEPTEMBER 22, 2015 AT 7:00 P.M.
DELTA COUNTY SERVICE CENTER, 2920 COLLEGE AVENUE**

MEMBERS PRESENT: Randy Gorecki, Steve Rose, Gary Boudreau, Eric Buckman, and Patrick Johnson

OTHERS PRESENT: Don Pyle, Buffy Smith

Meeting was called to order at 7:00 p.m. by Chairman Randy Gorecki.

Public Comment – None

Secretary's Report – Minutes of July 28, 2015

A motion was made by Gary Boudreau, seconded by Steve Rose, to approve the July 28, 2015, meeting minutes (the August meeting was cancelled). Motion was approved unanimously.

Treasurer's Report

The Authority in July had operating revenue of \$178,386 and operating expenses of \$133,191, for an operating income of \$45,195. Year to date totals are \$978,186 for revenue, \$822,060 for expenses, and an operating income of \$156,126.

The Authority in August had total operating revenue of \$183,260, total operating expenses of \$105,569, for an operating income of \$77,691. Year to date totals are \$109,000 for operating revenue and \$233,815 for an operating income.

Retained earnings began with \$284,126 and for August total \$375,917.

Out of cash expenses for the recycling center are \$109,367 and expenses are \$102,778.

A motion was made by Gary Boudreau, seconded by Patrick Johnson, to accept the Treasurer's Report. Motion was approved unanimously.

Payment of Bills

Randy Gorecki stated payment of bills total \$206,229.25 for July and August. Don Pyle explained that some of the payments during this time frame include the City of Escanaba for \$13,995, Anderson Tackman for the annual audit totaling \$4,600, Nortrax Equipment totaling \$10,697 for the repair/re-track of the Excavator, and Bacco Construction for the two (2) weeks of work on shaping the existing south-side with two (2) bulldozers. Bacco's D6 dozer's straight time hourly rate is \$187.54. The D9's rate is \$260.23. The Class 1 Operator cost is \$77.90. The Class 2 Operator cost is \$52.50.

A motion was made by Gary Boudreau, seconded by Steve Rose, to approve payment of bills in the amount of \$206,229.25. Motion was approved unanimously.

Additions to Agenda – None

1. Review Bacco Shaping of South Side Site:

Bacco went over the Landfill with their GPS and was able to tell the Authority what needs to be added and what to cut. They determined about 17,000-20,000 yards of material that needed to be added, removed, or placed somewhere else. Bacco shaped the whole side except a small area where dumping occurs near the bottom. It is

obvious which direction is needed next. Also, there will be three (3) wells that need to be completed before the cap goes on. Shaping is complete for this summer. A lot of waste has been exposed and a 6" cover is needed this fall.

2. Bomag Engine Installed:

The new Bomag engine is installed, working well, and has great power. New wheels for the machine will have to be looked into next spring.

3. Need for a New Recording Secretary:

A request to replace Buffy Smith from doing the monthly meeting minutes was sent to Don Pyle from Mr. O'Toole. All members agreed to continue the position of recorder. Patrick Johnson suggested hiring someone as an independent employee, completing a 1099 yearly. Costs were discussed including a \$100 payment fee per meeting or a lump sum payment of \$1,100 for all meetings held throughout the year, which was the option agreed upon. Kim Peterson was suggested by Don Pyle to resume the duty of minutes starting in October.

A motion was made by Gary Boudreau, seconded by Steve Rose , to hand over the responsibility to Don Pyle to hire someone for \$1,100 per year, which could be as few as ten (10) meetings or as many as twelve (12), using a 1099 tax form. Motion was approved unanimously.

4. Manager's Report:

Don Pyle stated that in August there was a lightening surge at the Landfill which caused a burnt out joystick controller and camera that watches what is being dropped off and dumped. A request has been submitted to the insurance company asking them to provide payment for the replacement camera costing \$3,500, minus the deductible of \$1,000.

Next Wednesday, September 30th, there is a joint meeting with the County Board for the subcommittee to begin discussions to move forward with a plan for increasing revenue.

Don Pyle received good information during his training recently in Florida. A section within the Recycling Reuse program basics lesson states the role of recycling and reuse can result in cost savings or avoided costs compared to disposal. Reuse and recycling programs do incur costs that must be considered. Programs are often funded through disposal revenues or surge charges. Recycling has positive economic impacts and American companies rely on recycling. In many communities recycling programs are funded in whole or in part by disposal dipping fees. This is not a sustainable long term funding structure because as disposal volumes increase and recycling volumes increase, funding declines and costs increase.

Don Pyle stated that the Authority has \$1.1 million in letters of credit for the Michigan Department Environmental Quality with Associated Bank. Dan Miller informed Don Pyle that the bank will not renew the Authority next August. Don Pyle stated a plan needs to be put in place for the financial problems. Every bank, based on the deposits made, can only lend a certain amount based on a percentage. FDIC requires banks to stay within the banking limits. Associated Bank will not meet the FDIC requirements with the Landfill since the Landfill has reached their limit.

5. Board Comments - None

A motion was made by Gary Boudreau, seconded by Steve Rose, to adjourn the meeting with the time being 8:05 p.m. Motion was approved unanimously.

REGULAR MEETING
DELTA SOLID WASTE MANAGEMENT AUTHORITY

October 27, 2015

The regular meeting of the Delta Solid Waste Management Authority will be held on Tuesday, October 27, 2015 at 7:00 p.m. in the County Building at 2950 College Avenue in Escanaba.

Pledge of Allegiance
Public comment
Secretary report
Treasurer reports
Payment of bills
Additions to agenda

AGENDA:

1. Wire Bids Recycling Baler
2. Request to change rates on electronics (see e-mail from Bay Area)
3. Bay Bank Signatures
4. Managers Report
5. Board Comments

Randy Gorecki
Chairman

PINECREST



CARING
COMMUNITY

Date: Thursday, August 27, 2015	Place: Board Room
Presiding: Jeff Naser, Chairperson	Time: 2:00 p.m. CST
Recording Secretary: Lois Ball, Executive Secretary	

Call to Order: The meeting was called to order by Chairperson Naser at 2:00 p.m. CST

Roll Call:
Trustees present: Gerald Smith, Elaine Boyne, Debbi Springinsguth, Mary Harrington, Barbara Oliver, Catherine Driscoll, Randall VanGasse, John Degenaer, Jr., Jeff Naser, Jan Hafeman. **Also Present:** Darlene Smith, Administrator
Trustees Absent: Gary Eichhorn and David Prestin
Leadership Team Members present: Candy Meintz, CFO and Susan Williamson, Director of Nursing
Guests: Terry Grondine, David Vandermissen, Jr.

TOPIC	DICUSSION	OUTCOME
Approval of August 2015 Agenda	There were no additions or deletions to the Agenda.	A motion was made by Trustee Smith, supported by Trustee Degenaer, to accept the Agenda as presented. Motion carried.

<p>Board action on Minutes of the July 2015 meeting</p>	<p>The minutes had been sent to Trustees prior to this meeting for their review.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Oliver, to approve the Minutes of the July meeting. Motion carried.</p>
<p>Review and request for approval of Financial Statements for July 2015</p>	<p>Candy Meintz, CFO, reviewed the Financial Statements with the Board. Trustee Hafeman questioned the payment to Ameritas Life Insurance. It was explained that this company provides our employee dental and vision coverages.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Hafeman to approve the Financial Statements for July 2015 as presented. Motion carried.</p>
<p>Board action on the July Manifest of Invoices</p>	<p>The Manifest of Invoices had been sent to Trustees prior to this meeting for their review.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Hafeman, to approve the Manifest of Invoices and to pay the bills. Motion carried.</p>
<p>Board Committee Reports: Whispering Pines/Powers Activity Center Committee Report</p>	<p>Trustee Driscoll stated the Committee met at 11 a.m. today and toured 4 homes. Whispering Pines South, Whispering Pines West, Maple Grove and Northern Pines where they had lunch. During their meeting they reviewed several policies and the April – June Quality Outcomes.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Hafeman, to approve the Whispering Pines Committee report. Motion carried.</p>

<p>Board Action Items/Resolutions</p> <p>a. Request approval from the Board for \$200.00 for Administrator's food and lodging to attend the MCMCFC Board of Director's meeting and Inservice in Sault Ste. Marie on September 24 and 25.</p> <p>b. Request approval from the Board for Administrator and D.O.N. to attend the Joint Provider Conference in Grand Rapids September 29th. 4 meals each plus \$125.00 lodging each for a total of \$410.00</p>		<p>A motion was made by Trustee Hafeman, supported by Trustee Driscoll, to approve the expenditure of \$200.00 for the Administrator to attend this meeting. Motion carried.</p> <p>A motion was made by Trustee Hafeman, supported by Trustee Oliver, to approve the expenditure for the Administrator and Director of Nursing to attend the Joint Provider Conference in Grand Rapids. Motion carried.</p>
<p>Unfinished and New Business:</p> <p>c. Report of Quality Assurance and Resident Council Committees – Susan Williamson, DON</p>	<p>Ms. Williamson reported on the monthly Quality Assurance Meeting held on August 19th. She stated that we have completed our follow up programs for the citations we had received in past months. She discussed having Behavioral Care Solutions come in on a regular basis to provide behavioral health care for our residents as needed. She discussed a citation we received this month for a dignity issue. The Plan of Care has been completed and staff have been inserviced. The newly updated charting program for nursing (ECS) will be easier for staff to follow.</p>	<p>A motion was made by Trustee Degenauer, supported by Trustee Smith, to approve the report of Quality Assurance and Resident Council Meetings as presented. Motion carried.</p>

	<p>Ms. Williamson also reported on the Resident Council Meetings held at each of the homes where they reviewed the activity calendar and made plans for upcoming events. She noted that the main building had a zoo outing this week, a cook-out today, Fish Fry outings, a fishing trip and a day at the fair. Cedar Grove has requested a fish fry outing.</p>	
<p>Safety Committee Report – Lois Ball</p>	<p>The Safety Committee meeting was held on Monday, August 19th. A discussion centered around falls and a new criteria we will be using to evaluate falls. A couple of general safety reminders were reviewed with those present. All incidents for residents and employees were reviewed.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Degenauer, to approve the Safety Committee report as presented. Motion carried.</p>
<p>Village of Powers Water/Sewer rates</p>	<p>Administrator Smith reported that they had the Water Authority meeting yesterday and they want to increase the rates by 2% for water. The Mayor and engineer for the Village were here last week and we are using 841,000 units for our sewer units. They want to increase the monthly fee from \$1760 to \$5500. We can't absorb that kind of increase. They will look at doing incremental increases. She noted that Davey Vandermissen had been at the meeting as well. He discussed the usage and noted that we'll put in more meters to</p>	

	<p>monitor the outgoing into the sewer system. They will be checking toilets and ice machines for continuous running. He noted that we do burn about 1 million gallons of water a year in our chiller but it is dumped in the storm drain, not into the sewer system. We will also put meters at that end to know what is coming in and going out. We dump 3-5 gallons per minute.</p> <p>Administrator Smith noted that we are working with the Village to get permission to use the water from the well out back of Pinecrest for the chiller.</p> <p>Trustee Degenauer noted that they do make a mirror that goes into the sewer drain and gives a reading of what is going into the sewer.</p>	
<p>Update by David Vandermissen Jr., regarding the retaining wall, roof, chip building, patios, siding at Maple Grove, roof assessment and proposed solution for Pinecrest main building.</p>	<p>Davey Vandermissen gave a report on several items: The retaining wall needs expansion joints cut into the top cap before it is completed.</p> <p>The blacktop will be remelted and relaid as it did not turn out well.</p> <p>The chip hatch was lifted off the roof and that area was reworked to make the opening big enough to accommodate one</p>	

and one-half truckloads of wood chips. The building is being welded down and bolted back into place.

Administrator Smith noted that at last month's meeting, Trustees Degenauer and Springinsguth were not present, but Trustee Eichhorn was here. Trustee Eichhorn stated that he had helped put that roof on about 30 years ago. Davey had gotten bids regarding the roof for the chip building. Trustee Eichhorn reviewed these bids after the Board Meeting.

Siding at Maple Grove was replaced and insulation put in.

Davey discussed needing to redo the roof of the big building. There are bad spots that need to be repaired before winter. He will get bids from companies in each of the counties for the repairs needed. After the repairs are completed they will work on putting the roof on a schedule for repairs/replacement. He noted that he hoped to have the repairs done before winter and then we should have 2 to 3 more years with this roof. Board Members offered suggestions of roofers to contact for bids.

<p>Permission for several staff members to attend the Best Practices Conference at Bay College on October 6h</p>	<p>Administrator Smith requested permission to bring 3 or 4 people to the Best Practices Conference at a cost of about \$50.00. Credits for RNs and Social workers would cost more. They would use the facility van.</p>	<p>A motion was made by Trustee Smith, Supported by Trustee Boyne, for a cost, not to exceed \$200.00 for employees to attend the Best Practice Conference. If more than the allotted amount is needed Administrator Smith will revisit this item with the Board.</p>
<p>Reminder: Change of Board Meeting Date for September from September 24th to September 23rd</p>	<p>To accommodate Administrator attending the MCMCFC Conference in Sault Ste. Marie. Chairperson Naser noted that he would not be able to attend this meeting. Suggested November 19 and December 17 due to holidays</p>	<p>A motion was made by Trustee Driscoll, supported by Trustee Boyne, to approve the suggested dates for Board Meetings. Lois noted that the December Board Meeting will be held at the Casino.</p>
<p>Change of Dates for November and December meetings due to holidays</p>	<p>Administrator Smith noted that this is the computer program we use for nurses charting. She stated that the training went well. We will be going live September 14th, but there is a lot of work to do for this.</p>	
<p>Administrator's report: Computer/IT Training august 18-20</p>		
<p>Governors' Luncheon August 20th</p>	<p>Administrator Smith stated that Candy Meintz, Chairperson Naser and she went to the Governor's Luncheon. She also saw Trustee Hafeman there.</p>	

	<p>She also noted that Pinecrest and Whispering Pines sponsored a table at the fair.</p>	
<p>Water Authority Meeting – August 26th</p>	<p>Administrator Smith noted that this was already discussed with Davey's earlier presentation regarding water rates and sewer issues.</p>	
<p>House Committee Meeting – August 27th</p>	<p>There will be a meeting of the House Committee immediately following this meeting to hear a grievance from an AFSCME employee.</p>	
<p>Employee Recognition Banquet October 5th ATC Update</p>	<p>Invitations for the Board to attend this event are next to your Packets.</p> <p>A call from ATC regarding placement of a pole was referred to Jim Moraska from the Township. Work is progressing</p> <p>Also, Rory Mattson sent a map to Jeff Naser regarding the timber cut (Jeff stated that it all looks good) and that he should have bid specifications next week along with a list of who to send them to for bids on our timber project.</p>	
<p>Purchase of laminating machine through donation of our Auxiliary to comply with life Safety Code</p>	<p>Administrator Smith stated that she wanted the Board to know that our Auxiliary had donated the funds to</p>	

	<p>purchase a laminating machine for the facility to help us comply with the Life Safety Code and thanked the Auxiliary for this donation.</p>	
<p>Meetings and Conferences Attended</p>	<p>OSF Advisory Board – 8/4. This is a 6 a.m. Central time meeting in Escanaba.</p> <p>Spaghetti Benefit Dinner for 1 employee who is ill – 8/5 she noted that we have 3 employees and 1 employee’s spouse with cancer right now and that employees are holding fundraisers and trying to help them as much as they can.</p> <p>Whispering Pines/PAC Picnic – 8/7</p> <p>State Surveyors were in the building for Facility Reported Incident and a complaint August 11th and 12th.</p>	<p>A motion was made by Trustee Smith, supported by Trustee Springinsguth, to approve the Administrator’s report and report of Meetings and Conferences attended. Motion carried.</p>
<p>Comments from the public</p>	<p>Trustee Degenauer noted that when the Activity Center brings their residents to the Dickinson County Fair, they should ask someone at the gates to contact him to get them in.</p>	
<p>Adjournment</p>	<p>The meeting adjourned at 2:38 p.m.</p>	<p>A motion was made by Trustee Hafeman, supported by Trustee VanGasse, to adjourn the meeting. Motion carried.</p>

Catherine Driscoll, Secretary

Catherine Driscoll

Darlene Smith, Administrator

Darlene Smith 9/23/15



Date: Wednesday, September 23, 2015	Place: Board Room
Presiding: Elaine Boyne, Vice-Chairperson	Time: 2:00 p.m. CST
Recording Secretary: Lois Ball, Executive Secretary	

Call to Order: The meeting was called to order by Vice-Chairperson Elaine Boyne at 2:00 p.m. CST

Roll Call:
 Trustees present: Gerald Smith, Elaine Boyne, Debbi Springinguth, Barbara Oliver, Catherine Driscoll, John Degenauer, Jr., Jan Hafeman, Darlene Smith; Administrator.
 Trustees absent: Mary Harrington, Randall VanGasse, Jeff Naser, Gary Eichhorn, David Prestin.
 Leadership Team members present: Candace Meintz, CFO and Susan Williamson, Director of Nursing.
 Guests: Gerald McCole, David Vandermissen, Jr.

TOPIC	DICUSSION	OUTCOME
Approval of September 23, 2015 Agenda	There were no additions or deletions to the Agenda.	A motion was made by Trustee Springinguth, supported by Trustee

		Smith, to approve the agenda as presented. Motion carried.
Board action on Minutes of the August 2015 meeting	The minutes of the August 27, 2015 meeting had been sent to Trustees for their review prior to this meeting.	A motion was made by Trustee Smith, supported by Trustee Hafeman, to approve the August Minutes. Motion carried.
Review and request for approval of Financial Statements for August 2015	CFO Meintz discussed with the Board 5 letters received from the State of Michigan in regards to the State taking back reimbursement that had been paid to us. She noted that we have been working with our auditors and the Medicaid people to determine why this is happening. We will probably take this to a formal appeal. Trustee Springinsguth stated that she feels we need to contact our Representatives and make them aware of what is happening. CFO Meintz then reviewed the Financial Statement for the month of August.	A motion was made by Trustee Hafeman, supported by Trustee Degenauer, to approve the Financial Statement as presented. Motion carried.
Board action on the August Manifest of Invoices	The Manifest of Invoices had been sent to Trustees prior to this meeting for their review.	A motion was made by Trustee Smith, supported by Trustee Driscoll, to approve the Manifest of Invoices and to pay the bills. Motion carried.
Board Committee Reports	Whispering Pines/Powers Activity Center Committee Report: Trustee Driscoll reported that the Committee had met prior to this meeting. Along with discussions the Committee reviewed the 2015 staff Survey Report, Tech Plan for	A motion was made by Trustee Degenauer, supported by Trustee Smith, to approve the report as presented. Motion carried.

	2015 and any changes to the organizational charts.	
<p>Board Action Items/Resolutions</p> <p>a. Request permission for Director of Nursing and 2 MDS Coordinators to attend the Fall D.O.N. Training in Thompsonville MI October 15 and 16</p> <p>b. Bad Debt Write Off</p>	<p>Administrator Smith requested \$350.00 for food and lodging for the 3 staff members to attend this training.</p> <p>Administrator Smith requested that the Board approve a Bad Debt Write Off in the amount of \$12,547.06</p> <p>Write Offs were reviewed with the Board.</p>	<p>A motion was made by Trustee Driscoll, supported by Trustee Smith, to approve the request for \$350.00 for expenses. Motion carried.</p> <p>A motion was made by Trustee Smith, supported by Trustee Hafeman, to approve the write off amount of \$12,457.06. Motion carried.</p>
<p>Unfinished and New Business:</p> <p>a. Report of Quality Assurance and Resident Council Committees</p>	<p>Director of Nursing Susan Williamson reviewed the reports of Resident Council. She reported on the Committee Meetings at each of the homes and noted that F223 regarding resident rights had been reviewed at each of the meetings.</p> <p>She then reported on the Quality Assurance Meeting for September, noting that over the past 3 months all staff have worked really hard on the citations from the State surveys and we have cleared most everything from it. She also noted that for F251, the dignity issue, we continue to observe but have found no problems. Our completed Plan of Correction was submitted to the State with a request for a desk audit in lieu of</p>	<p>A motion was made by Trustee Smith, supported by Trustee Hafeman, to approve the reports as presented. Motion carried.</p>

	<p>revisit and we had been approved for that, and the State has accepted all of our documentation so we have been cleared. The Board congratulated everyone on their hard work.</p>	
<p>b. Report of Safety Committee</p>	<p>Lois Ball, Safety Committee Secretary reported that the Committee met September 8th to review all incidents and accidents. Staff were reminded not to put items in front of the night lights in residents' rooms. Also, when the air conditioning is running all windows should be kept closed to keep the humidity out of the building. She noted that these can be considered minor items.</p>	<p>A motion was made by Trustee Hafeman, supported by Trustee Smith, to approve the Safety Committee Meeting. Motion carried.</p>
<p>c. Appoint replacement on Ellen K. Russell/Michael Micketinac and Pinecrest Charitable Trusts.</p>	<p>Administrator Smith noted that she received a letter of resignation from Dr. Boydston for this Committee. She will have council review the proceedings.</p>	
<p>d. State Surveyor visit</p>	<p>Administrator Smith reported that the State surveyor had come September 1st and 2nd to review an anonymous complaint, none of it was substantiated and we were given a clean slate.</p>	

e. Administrator's report

1. Roof/boiler/garage report to be given by Dave Vandermissen:
Dave reported that the chip building is almost completed, the garage door opener should be here on Friday. The roof for the chip building should be completed by Friday. The big roof repairs have been completed and the membranes and seams look good so we are hoping to try to hold off until 2017 when we will start to put the roof on a rotation cycle for repair/replacement.

Maintenance will start on boiler shut down and hope to be back up before November 1st.

Whispering Pines: some windows have been wrapped, roofs have been checked.

The generator we received through a grant from Hannahville is running and we are working with someone to get information on what to do to meet new Life Safety Codes.

A motion was made by Trustee Springinsguth, supported by Trustee Smith, to approve the Administrator's report. Motion carried.

Administrator Smith reported that she had heard from Rory Mattson regarding the timber cut. He should have the bids ready soon and would like to meet with the Committee (Trustees Naser, Smith and Eichhorn) next week. Copies of his map were distributed. The lighter colored areas are hard woods that are not ready to be cut yet. He said that the bids would be set up so they would bid by species. Once the bids go out they would give 3-4 weeks before they would award bids.

Administrator Smith stated that the ATC project is going well.

Administrator Smith stated that she, Candy and Lois had met with the Worker's Compensation insurance agent and the Liability Insurance agent this month.

On September 8th she attended the Alzheimer's Support Group and on September 16th she met with the Job Force Board.

f. Meetings and Conferences Attended

	Susan Williamson stated that she had gone to the College to speak with the CNA class. We are trying to hire members of the class for staff.	
Comments from the Public	Gerald McCole read a letter he had written regarding the resignation and his suggestions of a replacement of Dr. Boydston from the Ellen K. Russell and Michael Micketinac Trusts.	
Adjournment	The meeting adjourned at 2:30 p.m.	A motion was made by Trustee Degenaer, supported by Trustee Smith, to adjourn the meeting.

Catherine Driscoll, Secretary

Catherine Driscoll

Darlene Smith, Acting Secretary

Darlene Smith 10/27/15

DELTA COUNTY CENTRAL DISPATCH AUTHORITY MEETING
October 14, 2015-- 9:00 a.m.
Courthouse

1. Call to order 9:00 a.m.

2. Roll Call

AGENCY	MEMBER	YES	NO
Escanaba City	Tall, Marc	x	
Fire Chief's Association	Lundberg, Jim	x	
Gladstone City	Geyer, Paul	x	
Sheriff's Department	Oswald, Ed	x	
State Police	Cunningham, Greg		x
Township Association	Johnson, Greg	x	
Delta County	Bergman, Ryan	x	
911 Coordinator	Segorski, James	x	
E M Coordinator	Berbohm, Robert	x	

Also present: Mark Seymour, Rebecca O'Brien

3. Adoption of Agenda: Bank Signatures, waiting (resolution signed) – add to old business
GIS - talk about in member comments

Motion to approve agenda:

MOTION: Paul Geyer
SECOND: Jim Lundberg
SUPPORT: ALL

4. Public Comment on Agenda Items: NONE

5. Approval of Previous Meeting Minutes (September 2015):

Page 5 spell check should be run to correct spelling of budget and amendment per Marc Tall

Motion to accept minutes with changes above

MOTION: Paul Geyer
SECOND: Greg Johnson
SUPPORT: ALL

6. Communications: NONE

7. Committee and Liaison Reports: Jamie Segorski

A. Coordinator's Report:

1. New Full-time Dispatcher has been hired, John Skufca

2. Tie Hill Project is well underway, Anderson is to complete in our shop, currently working on alarm at job site
Departments may have to reprogram portable radios
Northeast Tower will be seen on radios

3. Dispatcher training scheduled for next few weeks

B. Treasurer's Report:

Beginning Balance	\$ 588,255.48
Additions	\$ 411.42
Expenditures	\$ (75,287.92)
Ending balance	\$ 513,378.98

Motion to accept treasurer's report

MOTION: Paul Geyer
SECOND: Marc Tall
SUPPORT: ALL

F. TAC Committee Report: John Giese: NONE

G. Mark Seymour Report: NONE

1. Northeast Tower will be real good!

2. Difference in test page? Test pages are clear, but fire/emergency page has static

8. Old Business:

- A. Bank - Authorizing signatures has been a process, but is now complete

9. New Business:

A. Payment of Bills: Attached to Minutes

MOTION to pay bills in the amount of **\$ 67,566.57**

MOTION: Paul Geyer
SECOND: Ryan Bergman
SUPPORT: ALL

10. Public Comment: NONE

11. Authority Members Comment: Ryan Bergman

- A. Long-term strategy, GIS partnering with CUPAD, Get 911 involved who is currently using Superior Mapping, done right away instead of twice a year with CUPAD. Top Comp is also used

Looking at a dedicated person split between Delta County and Menominee County 20 hours per week to be ahead of UP counties.

12. Other Items: Next Meeting: November 18, 2015 9:00 am

- A. December and January proposal will be brought to meeting
- B. Greg Cunningham, State Police – fire #'s a problem in county
- C. GIS talk about at next meeting - Proposal Dec or Jan

13. ADJOURNMENT:

MOTION: Greg Johnson
SECOND: Jim Lundberg
SUPPORT: ALL

APPROVAL OF MINUTES:

CHAIRPERSON

VICE-CHAIRPERSON

DATED: _____

DELTA COUNTY TOWNSHIPS ASSOCIATION

The meeting of the Delta County Townships Association was held on September 24, 2015 at the Tri-Township School in Rapid River. President Steve Rose led in the Pledge of Allegiance.

Townships that were represented were: Baldwin, Bark River, Bay de Noc, Cornell, Ensign, Escanaba, Ford River, and Maple Ridge. Representing the County Board of Commissioners was Administrator Ryan Bergman, David Rivard and John Malnor. The Delta County Road Commission was not represented.

A motion to accept the minutes from the April 23, 2015 meeting was made by Ginny Dahlin and supported by Judy Trudell. Motion carried.

The Treasurer's Report was given. A motion to accept was made by Greg Johnson and supported by Jamie Hanson. Motion carried.

BALANCE as of May 28, 2015	\$4806.85	PICNIC FUND.....	\$644.14
INCOME: None		Expenses.....	73.00
EXPENSES: Salaries...June, July, August....	\$440.0	Income....50-50.....	125.00
Lunch.....	11.77	PICNIC FUND BALANCE.	\$696.14
NEW BALANCE.....	\$4355.08		

COMMUNICATIONS: NONE

UNFINISHED BUSINESS: NONE

NEW BUSINESS: The Annual Meeting / Christmas Party will be held at Bay de Noc Township on December 4, 2015. Ginny Dahlin will be sharing the menu and the costs at the October meeting.

There are two openings on the DATA Board that need to be filled. Steve Rose will check with Judy Lauria and Connie Fuller to see if they would like to remain on the board.

SPEAKERS: Greg Cunningham , the Michigan State Police, spoke about the importance of Fire Numbers on every single residence, business, and camp in Delta County. This is vital for emergency personnel to reach an address in a timely fashion. The name of the township should be on the sign with the fire number. They should be reflective on both sides and be in a prominent place at the end of the driveway. There may be financial help available from The Civil Air Patrol, and the Forest Service. Trooper Cunningham reminded everyone that this is an issue that every township should look into.

Kristi Steger and Katie Botsford, Delta and Menominee County Health Department, gave a presentation on Michigan Tobacco-Free Parks and Recreation Areas. They discussed the perils of second hand smoke on children and adults.

Ryan Bergman, Delta County Administrator, gave a brief account on the news from the County.

The Veteran's Assistance program will become a full time position.

The Community Corrections Program lost their State resources so Delta County has taken over the program and will fund it for three days a week.

It has been decided that the Delta County Service Center will eventually be the site of the new jail. There will need to be an architectural service to draw up the plans for the 140 bed unit.

Financing is another issue that must be resolved.

Superior Trade Zone has formed a committee. Their first meeting was held in Rock on September 23, 2015.

The Landfill Authority is considering applying for a millage to support the Delta County Landfill.

The next regular meeting will be October 22, 2015 at the Tri-Township School in Rapid River, MI.

The motion to adjourn was made by Greg Johnson and supported by Jamie Hanson. Motion carried.

Respectfully Submitted,

Linda Trombley-Robitaille

Linda Trombley-Robitaille, Recording Secretary