SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

Lapmaster Wolters, LLC
501 W. Algonquin Road
Mt. Prospect, IL 60056

Telephone: (224) 659-7101 (Office Hours 8:00 a.m. to 5:30 p.m. CST)
Emergency Phone: 24 Hours/Day, Chemtrec @ 1-800-424-9300
Product Identification: METS Lubricant Series 1585B
Product Name: Lubricant Formulation METS-ACUT-CFL-XXXX

***** SECTION II – HAZARD(S) IDENTIFICATION *****

OSHA Defined Hazards Not classified.

GHS HAZARD CLASS

Physical Hazards Not classified.

Health Hazards
- Skin irritation – Category 3
- Serious eye damage/eye irritation – Category 2b
- Acute Toxicity – Category 4 (oral)

Environmental Hazards Not classified.

GHS Symbol/Pictogram

![GHS Symbol]

Signal Word Warning

Hazard Statements
- Causes mild skin irritation
- Causes eye irritation
- Harmful if swallowed

HMIS HAZARD CLASS:
- Health 1 (Slight)
- Fire 1 (Slight)
- Reactivity 0 (Least)
- Personal Protection B
***** SECTION II – HAZARD(S) IDENTIFICATION (continued) *****

Precautionary Statements

Prevention

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Do not eat, drink or smoke when using this product
- Use explosion-proof electrical/ventilating/lighting/equipment
- Use only non-sparking tools
- Avoid breathing dust, fumes, gas, mist, vapors, spray
- Wash thoroughly after handling
- Wear protective gloves, protective clothing, eye protection, face protection

Response

- IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
- Do not induce vomiting
- IF ON SKIN: Wash with plenty of water
- IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water
- If skin irritation occurs, get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- If eye irritation persists, get medical advice/attention
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- Call a POISON CENTER/doctor/physician if you feel unwell
- Specific treatment (see first aid section)
- In case of fire: Use foam, CO2, dry chemical

Storage

- Store in a well ventilated place. Keep container closed when not in use
- Keep cool
- Store locked up

Disposal

- Dispose of contents/container in accordance with local/state/federal regulations
- Avoid release to the environment

***** SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS *****

Substance ______ Mixture ___X__

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonic Acids, Sodium Salt</td>
<td>68608-26-4</td>
<td>10-15%</td>
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</tbody>
</table>
***** SECTION IV – FIRST AID MEASURES *****

Description Of Necessary First Aid Measures

Eye Contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Skin Contact
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion
Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

***** SECTION V – FIREFIGHTING MEASURES *****

Extinguishing Media
Suitable
Foam, CO2, dry chemicals, water fog or mist.

Unsuitable
Do not use water jet.

Specific Hazards
In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous Decomposition Products
Oxides of carbon, sulfur.

Special Precautions – Fire Fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if it can be done without risk. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment – Fire Fighters
Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.
***** SECTION VI – ACCIDENTAL RELEASE MEASURES *****

Personal Precautions, Protective Equipment And Emergency Procedures

For Non-Emergency Personnel
Take no action involving personal risk 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 specialized clothing is required to deal with the spillage, take note of any information in Section VIII on suitable and unsuitable materials. See also the information in “For Non-Emergency Personnel”.

Environmental Precautions
Avoid dispersal of spilled products and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product causes environmental pollution.

Methods And Materials For Containment And Cleaning Up

Small Spill
Stop leak if without risk. Eliminate ignition sources. 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. Eliminate ignition sources. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

***** SECTION VII – HANDLING & STORAGE *****

Precautions For Safe Handling

Protective Measures
Put on appropriate personal protective equipment (See Section VIII). Do not swallow. Avoid contact with eyes, skin, clothing. Avoid breathing vapor and mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 VIII for additional information on hygiene measures.

Conditions For Safe Storage
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 X) and food and drink. Keep away from heat, sparks and open flame. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
PRODUCT NAME: Lapmaster International, LLC
1585B
Part #METS-ACUT-CFL-GALL

***** SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION *****

Exposure Limits

Ingredient Name | Exposure Limits
--- | ---
Sulfonic Acids, Sodium Salt | Not Established

Appropriate Engineering Controls

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

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products and before eating, smoking or using the lavatory as well as at the end of the work period. Wash contaminated clothing before reusing.

Respiratory Protection

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Eye Protection

Safety glasses equipped with side shields in conjunction with a face shield are recommended in industrial settings.

Skin Protection

Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

***** SECTION IX – PHYSICAL & CHEMICAL PROPERTIES *****

Appearance

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Brown</td>
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</tbody>
</table>

Odor

Odor Threshold: Not available

Ph

Melting Point: 0 F

Freezing Point: 0 F

Initial Boiling Point: >600 F

Boiling Range: >600 F

Drop Point: Not applicable

Flash Point: >390

Evaporation Rate: Does not evaporate

Explosive Limits

Upper: Not available

Lower: Not available
**** SECTION IX – PHYSICAL & CHEMICAL PROPERTIES (continued) ****

- **Vapor Pressure**: Not available
- **Vapor Density**: Not available
- **Specific Gravity**: 0.9
- **Density**: 7.5 Pounds/gallon
- **Solubility**: Emulsifies In Water
- **Auto Ignition Temperature**: >600 F
- **Decomposition Temperature**: Not available
- **Viscosity**: 200 SUS @ 100 F
- **Partition coefficient (n-octanol/water)**: Not available
- **Volatile Organic Compounds**: 0%, wt% (LVP)

**** SECTION X – STABILITY & REACTIVITY ****

- **Reactivity**: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS definitions
- **Chemical Stability**: This product is stable under normal conditions.
- **Possibility Of Hazardous Reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions To Avoid**: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- **Incompatible Materials**: Reactive or incompatible with the following materials: Strong oxidizing agents.
- **Hazardous Decomposition Products**: Oxides of carbon and sulfur.
***** SECTION XI – TOXICOLOGICAL INFORMATION *****

Primary Routes Of Exposure: Eye contact, Ingestion, Inhalation, Skin contact

Acute Toxicity: Acute Toxicity – Category 4 (oral)

Information On Toxicological Effects - Effects Of Overexposure

**Inhalation**
Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression).

**Skin Contact**
Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

**Eye Contact**
Contact with the eye causes irritation. May cause tearing, redness and discomfort.

**Ingestion**
This material may be harmful or fatal if swallowed or liquid is aspirated into lungs. Ingestion may cause gastrointestinal tract irritation. May cause diarrhea.

**Chronic Hazards**
Defatting of the skin.

Sensitization
- **Respiratory**: Not classified
- **Skin Sensitization**: Not classified

**Germ Cell Mutagenicity**
Non-mutagenic based on Modified Ames Assay

**Carcinogenicity**
Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. This product is not listed as a carcinogen by IARC, OSHA, NTP.

**Fertility Effects**
Contains no ingredient listed as toxic to reproduction

**Specific Target Organ Toxicity**
- **Single Exposure**: Not classified
- **Repeated Exposure**: Not classified

**Aspiration Hazard**
Not classified
***** SECTION XII – ECOLOGICAL INFORMATION *****

Ecotoxicity
Not available

Persistence & Degradability
Not available

Bioaccumulative Potential
Not available

Mobility In Soil
Not available

Other Adverse Effects
No known significant effects or critical hazards.

***** SECTION XIII – DISPOSAL CONSIDERATIONS *****

Disposal Methods
Waste generation should be avoided or minimized wherever possible. Dispose of in accordance with federal, state, and local regulations. After the container has been emptied, it may contain hazardous residues. Avoid sparks and open flame. Do not cut, puncture, or weld on or near the container. Do not reuse the container for any purpose until properly reconditioned.

RCRA Classification
Not a hazardous waste

***** SECTION XIV – TRANSPORT INFORMATION *****

DOT

UN# Not regulated
UN SHIPPING NAME Petroleum oil, nos
Transport Hazard class None
Packing Group None
PRODUCT NAME Lapmaster International, LLC
1585E
Part #MET-S-ACUT-CFL-GALL

***** SECTION XV – REGULATORY INFORMATION *****

TSCA Section 12(b) Export notification (40 CFR 707 Subpart D): None
CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

SARA Section 302 – Threshold Planning Quantity: None

SARA Title III – Section 311/312
Immediate/Acute Health Effects: No
Fire Hazard: No
Delayed/Chronic Health Effects: No
Reactivity Hazard: No
Sudden Release Of Pressure Hazard: No

Chemical Release Reporting:
SARA Section 313: Not listed
CERCLA: Not listed

TSCA Inventory: All product ingredients are listed on the chemical inventory.

Clean Air Act
Ozone Depleting Compounds: No

***** SECTION XVI – OTHER INFORMATION *****

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