

**SYNTHETIC LUBRICANTS, INC**

1411 Callaghan Drive  
Greenville, MI 48838

**MATERIAL SAFETY DATA SHEET**

---

Date of Preparation: October 15, 2009  
Revision Number: 1  
Emergency Telephone Number: (616) 754-1050

---

Product Name

**UNIVERSAL PLUS™**

---

**Section I: Ingredients**

Name of Ingredient: Proprietary Mixture

It should be noted, none of the constituents of the product are regarded as carcinogenic by any reference cited by OSHA under 29 CFR 1910.1200

---

**Section II: Physical Data**

Boiling Point: As Water  
Specific Gravity: 1.0 kg/l  
Volatiles: Not Determined  
Vapor Pressure: As Water  
Appearance: Clear Orange Liquid  
Evaporation Rate: As Water

Vapor Density: As Water  
Odor: Odorless  
pH Level: Slightly alkaline, pH 8.0 to 8.6  
Solubility in Water: Completely Misable  
Freezing Point: 32° F

---

**Section III: Fire & Explosion Data**

Flash Point: None

Flammable Limits: LFL & UFL Not Determined

Fire Fighting Equip: This water-based product will not burn. It will produce irritating and potentially toxic fumes containing oxides of nitrogen if exposed to extreme heat in air. If fire situation, respiratory protection should be considered.

Method Used: N/A

Extinguishing Media: Water based product

---

**Section IV: Reactivity Data**

Stability: (Conditions to Avoid) Stable under normal use conditions and in final use concentration.

Incompatibility: (Materials to Avoid) Product concentrate behaves as an aqueous solution. Product may be degraded by exposure to acid materials. Some components of the product concentrate are reactive with oxidizing or reducing materials but in the diluted working solution, this should not be a problem. Use on Magnesium is not recommended, therefore, Synthetic Lubricants, Inc is not responsible for customers that use this product on Magnesium.

Hazardous Decomposition Products: Under proper use conditions, this product is a very dilute solution of the active ingredients. Extremely small amount of oxides of nitrogen and carbon is released as the product is subjected to combustion situations.

Hazardous Polymerization: Will not occur.

## **Section V: Environmental & Disposal**

Leaks & Spills: Dilute small spills with quantities of water and discard to the sanitary sewer. This product contains trace amount of residual alkanolamines. Large spills, contain with absorbent materials and institute clean-up efforts to recover the spilled liquid outlined in facility control plan.

Disposal Method: Follow all local, State, and Federal regulations.

---

## **Section VI: Health Hazard Data**

Eyes: While the working solution is very dilute, the mixture may cause irritation to eyes. Eye contact should be avoided.

Skin Contact: Prolonged or repeated exposure to the stock solution may cause mild skin irritation in sensitive skin.

Ingestion: This product should not be taken internally. Provide the victim with large quantities of water and seek medical assistance.

Inhalation: Vapors may be released if stock solution of this product, as supplied, is heated above room temperature. The vapors may be irritating to respiratory passages and should be avoided.

---

## **Section VII: First Aid**

Eyes: Irrigate with flowing water immediately for at least 15 minutes. Consult medical assistance.

Skin: Wash off stock solution residues with running water. Remove contaminated clothing and wash thoroughly before re-use.

Ingestion: If the victim has ingested the stock solution, administer large amounts of water and consider medical treatment.

Inhalation: If effects occur, remove to fresh air. Consult medical authorities. In vapor situations, use eye protection.

---

## **Section VIII: Handling Precautions**

Exposure Guideline: OSHA has established an exposure standard for the active alkanolamine salts ingredient in the air which is: Threshold Limit Value (TLV): 3.00ppm

Under normal use conditions, this product is a very dilute aqueous solution which makes it unlikely that any user will experience the concentration level of alkanolamine derivatives approaching this OSHA limit.

Ventilation: General good ventilation should be acceptable for most situations. If vapors are generated in use conditions, local exhaust should be considered.

Respiratory Protection: None should be needed.

Skin Protection: Under normal use none should be needed. However, for sensitive individuals, gloves may be indicated when mixing solution.

Eye Protection: Eye contact with the stock product should be avoided. Wear appropriate eye protection.

Storage: Do not store the stock solution under freezing conditions. Store drums in a dry place in a temperature range of 40° to 100°Fahrenheit.

Transportation: Is not regulated as a hazardous material

---

### Section IX: Additional Information

Avoid unnecessary skin and eye contact with stock product, as supplied. Avoid breathing any vapors that are generated by stock product. Do not contaminate food or drink. This product is not thought to be a serious carcinogenic threat. The active ingredient in this product has not been listed by OSHA, ACGIH, National Cancer Institute (NC), National Toxicology Program (NTC), the Environmental Protection Agency (USEPA) or the International Agency for Research on Cancer (IARC) as a carcinogen. While the concentrated form of the active ingredient in this product is a skin and inhalation irritant, the actual concentration found in the eventual working solution are very dilute reducing the hazard potential of the active alkanolamine ingredients to the level of insignificant.

---

### Section X: Comments

The information in this MSDS was obtained from sources that we believe are reliable. However, this information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness of this information.

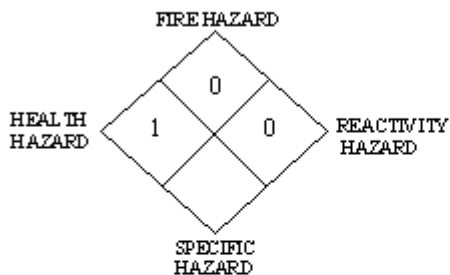
The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For these and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of this product once sold and delivered.

---

### HMIS III:

|   |                      |
|---|----------------------|
| 1 | HEALTH               |
| 0 | FLAMMABILITY         |
| 0 | PHYSICAL HAZARD      |
| C | PROTECTIVE EQUIPMENT |

### NFPA HAZARD RATINGS:



NFPA 704 ratings are subject to interpretation and are only intended for general identification of the level of the specific hazard. All information must be considered for proper safe handling of the material.