



MATERIAL SAFETY DATA SHEET

Unihib G Corrosion Inhibitor

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1. IDENTIFICATION

Product Name Unihib G
Chemical Name and/or Family..... Blend of alcohols and surfactants
C.A.S. Number Blend
Formula Confidential
M.S.D.S. Effective Date..... Revised October, 10 2013

2. COMPOSITION and INFORMATION on INGREDIENTS

<u>Component</u>	<u>C.A.S. #</u>	<u>%</u>
Short chained glycol ether	112-34-5	40-60
Ethoxylated alcohol	68002-97-1	20-35
Methanol	67-56-1	1-5
Acetophenone	98-86-2	<1
Formaldehyde	50-00-0	<1
Thiourea	62-56-6	<1

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

May cause irritation to the eyes, skin, and respiratory system. Avoid contact with skin or eyes; may cause chemical burns. Do not swallow. Breathing of vapors may cause headache, dizziness, nausea, and lack of coordination.

IMMEDIATE HEALTH EFFECTS

Eyes Repeated or prolonged exposure may be irritating to eyes.
Skin Repeated or prolonged exposure may be irritating to skin.
Ingestion May be harmful if swallowed.
Inhalation Repeated or prolonged exposure to product mist, aerosol, or vapor may be irritating to respiratory system.

CARCINOGENICITY

NTP Not available for this product
IARC Not available for this product
OSHA Not available for this product

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATINGS

Health 2



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Flammability.....1
Reactivity.....0
Personal Protection.....C

4. FIRST AID MEASURES

EYE CONTACT As a precaution, remove contact lenses and flush with plenty of water for at least 15 minutes. If symptoms persist, consult a physician.

SKIN CONTACT Wash thoroughly with large amounts of running water for fifteen minutes. If symptoms persist, consult a physician.

INHALATION Remove victim to fresh air and if problem breathing seek medical attention. Rest until normal breathing returns. If breathing is stopped administer artificial respiration and oxygen.

INGESTION Do not induce vomiting. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire Classification..... Combustible. Flash Point 93° C (200° F)

Flammable Limits Lower: 1.1 @93° C(200° F) Upper: 12.7@135° C (275° F)

Extinguishing Media..... Water, foam, CO₂ or dry chemical. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Stay away from ends of containers.

Fire Fighting Procedures Water may be ineffective. Do NOT use straight streams of water. For large fires, use dry chemical, CO₂, alcohol resistant foam or water spray. For small fires, use CO₂, dry chemical, dry sand or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Recover all usable material. Soak up balance with sand or dirt. Dispose of media according to regulations. Do not allow material to enter public drainage systems. Shut off ignition sources. No flares, smoking or flames in hazard area. Water spray may reduce vapor but may not prevent ignition in closed areas. Always wear proper personal protection equipment when addressing spill or leak.

7. HANDLING and STORAGE PROCEDURES

Precautionary Handling Use with adequate ventilation.

- Avoid breathing vapors.
- Avoid breathing spray mist.
- Harmful if swallowed
- For industrial use only
- Avoid contact with skin and eyes. After handling this product, wash hands before eating, drinking, or smoking. If needed, take emergency first aid action shown in this Material Safety Data Sheet.
- Remove and wash contaminated clothing.
- Store in iron, stainless-steel or acid-resistant fiberglass reinforced plastic tanks. Contact tank manufacturers for recommendations.



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Storage Store in a cool dry place. Avoid open flames. Avoid contact with strong oxidizers. Keep containers tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, electric sparks, static electricity or other sources of ignition.

Conditions to Avoid..... Open flames. Strong oxidizers.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

Ventilation Mechanical ventilation recommended if personnel will be working in a confined space with open containers.

Respiratory Protection Avoid breathing vapors, which are irritating. A NIOSH-approved acid-gas respirator should be used if vapors are unavoidable.

Eye Protection Use goggles and face shield.

Protective Gloves Use acid-resistant gloves.

HMIS Personal Protective Code ...C: Safety glasses, gloves, eyewash and emergency showers are recommended.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance Clear tan liquid

Vapor Pressure Not determined

pH Value 2.5–3.5

Solubility in Water Dispersible

Specific Gravity (Water = 1) 0.925-0.93

Percent Volatile 50%

Vapor Density Not determined

Flash Point 200° F (93° C)

10. STABILITY and REACTIVITY

Conditions to Avoid..... Keep away from heat, ignition sources and incompatible materials.

Incompatible Materials..... May react with oxidizing agents

Decomposition Products Oxides of carbon, nitrogen, and sulfur

Chemical Stability..... Stable under normal conditions

Hazardous Polymerization..... Will not occur

11. TOXICOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available on the product itself.

Environmental Fate Unknown

13. DISPOSAL CONSIDERATIONS



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Waste Disposal Method:Dispose of in accordance with local, state and federal regulations.

General Product Information If discarded as supplied this product may meet definition of a RCRA ignitable waste D001. Wastes should be tested using methods described in 40 CFR part 261 to determine if it meets applicable definitions.

Component Waste Numbers.....RCRA U154 ignitable waste

14. TRANSPORTATION INFORMATION

..... **NOT REGULATED**

15. REGULATORY INFORMATION

Notice The following information is presented in good faith and is believed to be accurate, as of the revised date shown above. No warranty is therefore, expressed or implied. Regulatory information requirements are subject to change as governmental regulations change.

Toxic Substances Control Act.....All chemical substances contained in this product are listed in the Toxic Substances Control Act (TSCA) Inventory List. This, however, does not imply that all components are "toxic".

Sara 313..... Form R reporting required for 1.0% de minimis concentration; chemical category N230; (applies to R-(OCH₂CH₂)_n-OR^{'''} ethers, where n=1, 2, or 3^{'''}; r=alkyl C7 or less or R=phenyl or alkyl subst. phenyl; R^{'''}=H or alkyl C7 or less, or OR^{'''} consisting of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate related to glycol ethers.

CERCLA..... Includes mono- and di-ethers of ethylene glycol; diethylene glycol and triethylene glycol R-(OCH₂CH₂)_n-OR^{'''} where n=1,2, or 3^{'''} R= alkyl or aryl groups; R=Rh or groups which when removed yield glycol ethers with the structure R-(OCH₂CH₂)_n-OH. Polymers are excluded from glycol category. Statutory RQ = 1 pound, no final RQ is being assigned to the generic or broad class related to glycol ethers.

MISCELLANEOUS OTHER INFORMATION

Product Packaging Various drums, tanks and bulk in accordance with established guidelines.

Footnotes ND No data available
 NA Not applicable
 < Less than
 > Greater than



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This product's safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein, is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by this company in this respect. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal regulations concerning the product. *All materials in this product are produced in compliance with Public Law 94-469 (also known as the "Toxic Substances Control Act" of 1976).*

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