

MATERIAL SAFETY DATA SHEET

SECTION - CHEMICAL PRODUCT

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT CLASS . . . . . : FRICTION MODIFIER

FOR CHEMICAL EMERGENCY

Spill, leak, fire, exposure, or accident

EMERGENCY CONTACT . . . . . : CHEMTREC

EMERGENCY TELEPHONE . . . . . : (800) 424-9300

(703) 527-3887 (INTERNATIONAL)

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

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CAS# 3658-48-8

BIS(2-ETHYHEXYL) HYDROGEN PHOSPHITE

PCT BY WT: < 10

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE

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This product contains no components, present in excess of 0.1%  
by weight, which are listed as carcinogens by IARC, NTP, or OSHA.  
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SECTION ; - HAZARDS IDENTIFICATION

ACUTE HEALTH HAZARDS: prolonged or frequent contact may cause skin and eye irritation. Inhalation of mists/vapors may cause respiratory irritation.

CHRONIC HEALTH HAZARDS: Not determined for the product as a whole.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

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Possible red and/or itching skin due to overexposure.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with water at once for at least 15 minutes, lifting upper and lower lids to ensure even flushing. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing immediately, and wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

INHALATION: If a person breathes in large amounts of this product, move the exposed person to fresh air at once. If breathing becomes difficult, administer oxygen and seek immediate medical attention.

INGESTION: Rinse mouth immediately. Never give anything to an unconscious person. Do not induce vomiting unless advised by a physician. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES:

Flashpoint . . . . . 300.0 °F  
Auto-ignition temperature. -N/A  
Lower Explosion Limit. . . -N/A  
Upper Explosion Limit. . . -N/A

EXTINGUISHING MEDIA:

Dry Chemical, Foam, CO2, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SPECIAL FIRE FIGHTING PROCEDURES:

None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Persons not wearing proper personal protective equipment as stated in Section 8 should be excluded from area of spill. Extinguish all flames in the vicinity. Dike spill and soak up with inert absorbent material. Place in appropriate containers and affix proper labels.

Store containers closed, away from ignition sources such as open flames. Keep away from extreme temperatures.

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SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store containers closed, away from ignition sources such as open flames. Keep away from extreme temperatures.

OTHER PRECAUTIONS:

Use good personal hygiene. For industrial use only. Avoid breathing mists and vapors. Wear all appropriate personal protection equipment at all times.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION: Safety Glasses  
PROTECTIVE GLOVES: Rubber, Impervious

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

An eyewash fountain should be located nearby work area at all times for emergency use.

RESPIRATORY PROTECTION (Specify Type):

If ventilation equipment is not sufficient to keep airborne concentrations below exposure limits, a NIOSH approved respirator should be worn.

VENTILATION:

Local Exhaust: Recommended  
Mechanical: None Special  
Special: None Special  
Other: None Special

WORK/HYGENIC PRACTICES:

Use good personal hygiene at all times. Launder soiled clothing before reuse. Wash hands thoroughly before eating or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance . . . . . : LIGHT BROWN OIL  
Odor . . . . . : CHARACTERISTIC  
Physical State . . . . . : LIQUID  
pH . . . . . : -N/A  
Vapor Pressure . . . . . : -N/A  
Vapor Density . . . . . : -N/A  
Boiling Range . . . . . : Lower - N/A °F  
Higher - N/A °F  
Water Solubility . . . . . : INSOLUBLE  
Specific Gravity . . . . . : .910

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Evaporation Rate . . . . . : -N/A

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY (Materials To Avoid): Strong oxidizing agents, strong acids  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide and Carbon Dioxide

Oil-based products may fume when heated.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Keep away from heat, sparks, open flames, or all  
sources of ignition. Do not store next to or with  
incompatible materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

Please refer to Section 3 for information on potential health effects.

SECTION 12 - ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Follow all Federal, State, Local and Corporate Regulations for disposal.  
The disposal method and manner practices should be acceptable to good  
waste management practices and follow applicable codes and regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION:

NOT DOT REGULATED

SECTION 15 - REGULATORY INFORMATION

SARA 311 AND 312 INFORMATION:

This product contains the following substances defined as Hazardous  
by OSHA Hazard Communication Standard 29 CFR 1910.1200 (d),

CAS#	Chemical Name	% By Weight
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See Section 2

SARA 313 INFORMATION:

This product contains NONE of the substances subject to the reporting  
requirements of Section 313 of Title III of the Superfund Amendments and

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Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) INFORMATION:  
Health- 1                      Flammability- 1  
Reactivity- 0                  Personal Protective Equipment- B

PPE "B" = Safety Glasses and Gloves

Prepared by . . . . . : EHS Department  
MSDS Last Revision Date . . . . . : 12/18/2002  
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