

S A F E T Y D A T A S H E E T



Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME:

BIOLUBE GR #3

TYPE:
PRODUCT #

Water based lubricant
204601

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN

EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300 24-Hour Service
Company Offices: 812-273-6000 Weekdays

PREPARED DATE:

07-29-16

PREPARED BY:

Natalie Green

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Acute Toxicity, Oral	Category 5	H303
	Skin Corrosion/Irritation	Category 2	H315
	Serious Eye Damage/Eye Irritation	Category 2A	H319
	Acute Toxicity, Inhalation	Category 4	H332
	Specific Target Organ Toxicity, Single Exposure	Category 3	H335
	Aquatic Toxicity (Acute)	Category 3	H402

Signal Word

WARNING

Symbol



Hazard Statements

H303 May be harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Precautionary Statements

P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands, forearms, and exposed areas thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection, face protection, protective clothing, protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see Section 4).
P332 + P313 If skin irritation occurs: Get medical attention.
P337 + P313 If eye irritation persists: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P403 Store in a well-ventilated place.
P405 Store locked up.
P501 Dispose of contents / container according to local, regional, national and international regulations.

Precautionary Statements
continued

SAFETY DATA SHEET

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Ethanolamine	2-aminoethanol Monoethanolamine	141-43-5	5 - 15
Triethanolamine	Ethanol 2, 2', 2'', nitrilotris	102-71-6	10 – 20

If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYES:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
SKIN:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
INGESTION:	If conscious, immediately give large quantities of water. DO NOT INDUCE VOMITING. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.
INHALATION:	Move subject to fresh air and get medical attention.
PRIMARY ROUTE(S) OF ENTRY:	Eyes, skin, ingestion.

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

EYE CONTACT:	Contacted areas may exhibit irritation.
SKIN CONTACT:	Contacted areas may exhibit irritation.
INGESTION:	May be harmful if swallowed. May cause irritation.
INHALATION:	May cause nasal and respiratory irritation.
CHRONIC SYMPTOMS:	Long-term oral and dermal studies with ethanolamines in animals have been shown to occasionally produce liver and kidney damage. Local irritation is most prominent effect after repeated exposure. Ethanolamines may cause damage to upper respiratory tract after repeated inhalation, as shown in animal studies.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Hazardous reactions will not occur under normal conditions.

ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Avoid breathing vapors. Wear impermeable gloves. Goggles and faceshield necessary. Wear suitable protective clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Ventilate area. Dispose with solid waste. See Waste Disposal Method. Do not discharge to sewers or waterways without proper treatment.

SECTION 7: HANDLING AND STORAGE

SAFETY DATA SHEET

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for alkaline materials. Store away from acids and oxidizers. May form suspected cancer-causing nitrosamines if mixed with nitrites. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

<u>CHEMICAL IDENTITY</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ethanolamine	141-43-5	3 ppm	3 ppm
Diethanolamine	111-42-2	N.E.	1 mg / M ³ (skin)*
Triethanolamine	102-71-6	N.E.	5 mg / M ³

*Inhalable fraction and vapor.

ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

In absence of proper environmental control, use NIOSH / MSHA approved respirator for dusts and mists where airborne exposure is excessive.

SKIN PROTECTION:

Neoprene or PVC-coated gloves. Other equipment as required to avoid contact.

EYE PROTECTION:

Safety eyewear to protect against unexpected splashes.

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Straw colored liquid.
ODOR:	Slight
ODOR THRESHOLD:	Not available.
pH (100%):	9.5 – 10.0
MELTING POINT/FREEZING POINT	28°F
INITIAL BOILING POINT AND BOILING RANGE	205°F (99°C)
FLASH POINT (METHOD USED)	Not available.
EVAPORATION RATE	Not available.
FLAMMABILITY (SOLID, GAS)	Not available.
UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
SPECIFIC GRAVITY	1.04
SOLUBILITY IN WATER	Complete.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
VISCOSITY, DYNAMIC	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

SECTION 10: STABILITY AND REACTIVITY

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REACTIVITY: Hazardous reactions will not occur under normal conditions.
CHEMICAL STABILITY: Stable under recommended handling and storage conditions (see Section 7).
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.
CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBLE MATERIALS: Acids, strong oxidizing agents, nitrites.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen.

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY: Not classified.
LD50 AND LC50 DATA: Not available.
ROUTES OF EXPOSURE / SYMPTOMS
EYES: WARNING! Contacted areas may exhibit irritation.
SKIN: WARNING! Contacted areas may exhibit irritation.
INGESTION: WARNING! May be harmful if swallowed. May cause irritation.
INHALATION: May cause nasal and respiratory irritation.
GERM CELL MUTAGENICITY: Not classified.
TERATOGENICITY: Not available.
CHRONIC EFFECTS / CARCINOGENICITY: This material contains no ingredient above de minimus concentrations known or suspected to cause cancer. Long-term oral and dermal studies with ethanolamines in animals have been shown to occasionally produce liver and kidney damage. Local irritation is most prominent effect after repeated exposure. Ethanolamines may cause damage to upper respiratory tract after repeated inhalation, as shown in animal studies.
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure): May cause damage to organs (liver, kidney) through prolonged or repeated exposure
REPRODUCTIVE TOXICITY: Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure): Not classified.
ASPIRATION HAZARD: Not classified.
COMPONENT INFORMATION:

Ethanolamine	LD50 Oral Rat:	1,100 mg/kg
	LD50 Dermal Rabbit:	2,500 mg/kg
	LC50 Inhalation Rat:	>520 ppm/6 hrs
Diethanolamine	LD50 Oral Rat:	710 mg/kg
	LD50 Dermal Rabbit:	11.9 ml/kg
	LC50 Inhalation:	No data.
Triethanolamine	LD50 Oral:	8 g/kg
	LD50 Dermal Rabbit:	>20,000 mg/kg
	LC50 Inhalation:	No data.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY The ecotoxicity of this product is not known

COMPONENT INFORMATION

Ethanolamine	LC50 Fish (<i>Cyprinus carpio</i>):	349 mg/l/96 hr
	LC50 Fish (<i>Pimophales promelas</i>):	2,070 mg/l/96 hr
	EC50 <i>Daphnia magna</i> :	65 – 93 mg/l/48 hr
Diethanolamine	No data.	
Triethanolamine	Acute Toxicity:	
	LC50 fathead minnow (<i>Ouneogakes orinekas</i>):	10,610 – 13,010 mg/l 96 hours
	EC50 Water flea (<i>Ceriodaphnia dubia</i>):	565.2 – 658.3 mg/l/48 hours

PERSISTENCE AND DEGRADABILITY: Not available.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: Not available.
OTHER ADVERSE EFFECTS: This material contains no hazardous air pollutants (HAPS).

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Normal for alkaline wastes containing amines. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Compound, cleaning, liquid, n.o.i.
HAZARD CLASS: Not applicable
IDENTIFICATION NUMBER: Not applicable
PACKING GROUP: Not applicable
EMERGENCY RESPONSE GUIDE: Not applicable

SECTION 15: REGULATORY INFORMATION

VOC: 0.5 pounds per gallon (60 grams per liter).
TSCA STATUS All ingredients are listed on the TSCA inventory.
CERCLA REPORTABLE QUANTITY 100 pounds for diethanolamine (approximately 574 gallons)

SARA 311 / 312 HAZARD CLASSES

x	ACUTE HEALTH
	FIRE
	SUDDEN RELEASE OF PRESSURE
x	CHRONIC HEALTH
	REACTIVE

SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

CHEMICAL NAME

Diethanolamine

CATEGORY CODE

N.A.

CAS NUMBER

111-42-2

% BY WEIGHT

2

STATE REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS STATUS: Revised section 1 on 08-08-16.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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