

SUC 449- 10177

LUCAS OIL PRODUCTS, INC.
MATERIAL SAFETY DATA SHEET

BIO MEDIC

Revision date: 5/22/2009

Phone 1 800-342-2512

Lucas Oil Products, Inc.
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Emergency Phone 1 800 342-2512

SECTION 1 OSHA HAZARD CLASSIFICATIONS

Toxic if swallowed. Combustible. Highly toxic by inhalation of mist. Corrosive to eyes and skin. Sensitizer.

SECTION 2 HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>TLV</u>
2-(Thiocyanomethylthio)benzothiazole	21564-17-0	0.5	Not available
Methylene bis(thiocyanate)	6317-18-6	0.5	Not available
Diethylene glycol monomethyl ether	111-77-3	16	Not available
Hydrotreated Heavy Paraffinic Distillate	64742-54-7	60-70	Not available

The remainder of the components comprise proprietary information.

SECTION 3 FIRST AID INFORMATION

Eye Exposure: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin Exposure: Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health Care professional.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to Fresh air. If individual experiences nausea, headache, dizziness, has difficulty in Breathing or is cyanotic, seek a health care professional immediately.

Ingestion: **DO NOT INDUCE VOMITING.** Rinse with copious amounts of water or milk, First. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to

two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek Medical assistance immediately, takes individual to nearest medical facility.

SECTION 4 PRIMARY ROUTES OF EXPOSURE

1. Effects from Acute Exposure:

- Eye Exposure: Very hazardous in case of eye contact (irritant, corrosive). Inflammation of the Eye is characterized by the redness, watering, and itching.
- Skin Exposure: Slightly hazardous in case of skin contact. Exposure could result in itching and redness.
- Inhalation: May be harmful if inhaled. Do not breathe spray mists of the undiluted Product. Effects will depend upon solution strength and length of time of Exposure.
- Ingestion: Ingestion is not expected to be a primary route of exposure.

2. Effects of Chronic Exposure:

Chronic feeding studies on the active ingredient did not reveal any significant adverse effects.

SECTION 5 TOXICOLOGICAL INFORMATION

Acute Effects:

Not tested. Expected to be toxic by oral ingestion, non toxic by dermal exposure and Highly toxic by inhalation of mists.

Irritant/Sensitization Effects:

Very hazardous in case of eye contact (irritant, corrosive). Inflammation of the eye is Characterized by redness, watering and itching. Slightly hazardous in case of skin Contact. Exposure could result in itching and redness.
 May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

Carcinogenic Potential:

Not tested by Lucas Oil Products, Inc.. Not shown as a carcinogen by OSHA, IARC, or NTP. Mutagenicity testing and 52-week rat studies on the active ingredients show no evidence of carcinogenic effects.

Target Organs Effects:

May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Health Effects:

Inhalation toxicity was conducted with the technical grade material under misting Conditions with a 4-hour exposure under controlled misting conditions. Normal use Of this product under non-misting conditions should not present an occupational hazard.

SECTION 6 ENVIRONMENTAL TOXICOLGICAL INFORMATION

No information available.

SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... Clear Straw liquid.
 Odor..... Slight.

Density..... .873 g/cm³
Flash Point..... CLOSED CUP: 70 C (175 F). (Tagliabue).
Melting/Freezing..... <-30 C (-22 F)
Boiling Point..... >100 C (212 F)
Solubility..... Dispersible in cold water. Dispersible in hot water.
pH (Neat)..... 6.8
Vapor Pressure..... Not available.
o/w Partition Coefficient... Not available.
Oxidizing/Reducing Properties.. Not available
Viscosity..... Not available
Additional pH Information.. Not available

SECTION 8	FIRE AND EXPLOSION INFORMATION
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Flammable Limits..... Not available.
Extinguishing Media..... Water fog, carbon dioxide, foam, dry chemical.
Special Firefighting Procedures Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 9	REACTIVITY PRECAUTIONS
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Stability..... Do not heat and/or store above 50C as decomposition may increase packaging pressure.
Incompatibility..... Strong acids, strong oxidizers, strong bases. Extended heating at high temperatures.
Hazardous Decomposition Products
..... Cyanide salts may form when product contacts strong alkali. Thermal decomposition of Product can produce toxic vapors of hydrogen cyanide and sulfur dioxide. Contact with Fire may generate oxides or sulfur, nitrogen and carbon.

SECTION 10	HANDLING PRECAUTIONS
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Rubber gloves, safety glasses or goggles and body protective clothing and shoes are required.
When splashing can occur, a neoprene apron or neoprene rain suit and a face shield are advisable.
Eye-wash fountains in the work place are strongly recommended.
Respiratory protection is required for work areas where misting may occur. A comprehensive respiratory protection program is needed when respirators must be used.
The handling precautions for this product are based on the characteristics of the neat product unless otherwise specified.

SECTION 11**SATISFACTORY MATERIALS OF CONSTRUCTION**

Teflon
EPDM rubber
Polyethylene – low density
Polyethylene – high density
Silicone rubber
Buna-N rubber
316 stainless steel
Van leer epoxy liner 136
Polypropylene (slight discoloration)
Viton (slight discoloration)

NOTE: With respect to all other materials not listed above, user should be aware that use of such materials with this product may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such materials not listed above should be implied by the user.

SECTION 12**SPILL, LEAK, AND DISPOSAL PROCEDURES****SPILL AND LEAK RESPONSE GUIDELINES:**

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as compatible. If irritation fumes are present, consider evacuation of enclose areas.

Emergency Response Assistance: Emergency technical assistance is available at any time from Lucas Oil Products Inc. by calling 1800 345 2512.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g. sewers, streams, lakes, etc.). Based on the products toxicology and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.) There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments... Lucas Oil Products, Inc can be contacted for technical assistance. Determine if federal, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material in an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed into an industrial sewer insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility industrial sewer system prior to intentionally flushing pr pumping spills or leaks of this product to the industrial sewer.

DISPOSAL GUIDELINES

NOTE: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact your Lucas Representative or Lucas Oil Products, Inc. at 1 800 342 2512.

Contaminated Materials: Determine if waster containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak, residuals may meet the criteria of a characteristic

hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

Container Disposal: Empty containers as defined by appropriate sections of the RCRA, are not RCRA hazardous waste. However, insure proper management of any residuals remaining in container.

SECTION 13 TRANSPORTATION AND SHIPPING INFORMATION
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DOT Shipping Information:
NOT REGULATED

IMO/IMDG Shipping Information:
MARINE POLLUTANT (EmS No. F-A, S-B, ERG Guide 154, HazMat Code 4936015)

IATA Shipping Information:
NOT REGULATED

Unless otherwise stated, the shipping information provided above applies only to non bulk containers of this product. Proper shipping name and general shipping information may vary depending on package and mode of shipment. All products shipped from Lucas location have been properly package and labeled according to appropriate hazard materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Lucas Oil Products, Inc.

SECTION 14 REGULATORY INFORMATION

The following Regulations are know to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substance List....
No components of these products are listed.

SARA 312 Hazard Categories...
Fire Hazard, Immediate (Acute) Health Hazard

SARA 313 Toxic Chemicals List...
This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:
Diethylene glycol monomethyl ether

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

No compents of this product are present above the de minimus levels.

RCRA (Resource Conversation and Recovery Act) Listed Hazardous Waste

No components of these products are listed.

CWA (Clean Water Act) Listed Substances

No components of this product are listed.

FDA (Food and Drug Administration)

This product is approved under the following FDA (21 CFR) sections: 176.300

TSCA (Toxic Substances Control Act) Applicability

All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the Requirements of TSCA.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

This product is a registered pesticide. EPA Reg. No. 1448-102

HMIS/NPCA Rating.... Health 3 Flammability 2 Reactivity 1

NFPA Ratings..... Health 3 Flammability 2 Reactivity 1

State Regulations

Various State Right To Know Acts....

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further Information on specific proprietary or inert ingredients please contacts Lucas Oil Products, Inc.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations.

Lucas Oil Products, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase prices of the product without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.