

5644



MATERIAL SAFETY DATA SHEET

BVA SOLEST SERIES

SECTION I: General Information

| | | |
|-----------------------------|----------------|----------------|
| Manufacturer/Supplier Name: | Phone : | 248-348-4920 |
| BVA OILS | Emergency : | CHEMTRAC |
| 48845 West Road | | 1-800-424-9300 |
| Wixom, Mi 48393-6042 | Date prepared: | 09/08/97 |

SECTION II: COMPONENT INFORMATION

| Chemical Name | CAS REG NO. | PERCENTAGE (%) |
|----------------------------------|-------------|----------------|
| Ester (Polyol Ester) | Proprietary | 99 + |
| Alkylated Phenol & Benzotriazole | Proprietary | < 1 |

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE

EYE : May cause eye irritation.

INHALATION : If sprayed or misted may cause chemical pneumonitis. Product is not toxic by inhalation.

INGESTION : Do Not Take Internally. Low toxicity on ingestion, may cause nausea and diarrhea.

SKIN : Minimally irritating. Prolonged contact can cause dermatitis.

To the best of our knowledge, the toxicological properties of these compounds have not been fully investigated. Analogous compounds are considered to be essentially non-toxic

SECTION IV: FIRST AID PROCEDURES

EYE : Copious warm water flush-15 minutes. Consult a physician if irritation.

SKIN: Remove contaminated clothing-Launder or dry clean clothes before reuse. Dispose of leather articles.

INHALATION : Evacuate to a safe area with plenty of fresh air. Allow victim to rest in a well ventilated area then seek medical aid immediately.

INGESTION : DO NOT induce vomiting. Force fluids. Activate charcoal tablets.

SECTION V: FIRE FIGHTING PROCEDURES

| | | | |
|--|---------|-----------------------|----------------|
| This product is: Combustible | | | |
| FLASH POINT °C= OPEN CLEVELAND OPEN CUP | 230-300 | LOWER EXPLOSIVE LIMIT | NOT APPLICABLE |
| UNUSUAL HAZARDS : Burning fluid may evolve irritating/noxious fumes. | | | |

| | |
|----------------------------|--|
| EXTINGUISHING AGENTS : | Dry chemical, CO foam, water fog, |
| PROTECTIVE CLOTHING : | Fire-fighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear. |
| FIRE-FIGHTING PROCEDURES : | Use water fog to cool fire exposed containers. USE WATER CAREFULLY NEAR EXPOSED/BURNING LIQUIDS. May cause frothing and splashing of hot material. |

SECTION VI: SPILL OR LEAK HANDLING PROCEDURES

PERSONAL PROTECTION : Wear protective clothing including splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly.

PROCEDURES : Floor may be slippery: use care to avoid falling. Contain spill immediately with inert material (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION VII: HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.

Ensure that containers are properly secured before moving.

Keep container closed and keep away from oxidizing materials.

Store in a cool-well ventilated area. Product is hygroscopic. Storage under Nitrogen is highly recommended.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

SECTION VIII: COMPONENT EXPOSURE LIMITS & PERSONAL PROTECTION

| COMPONENT EXPOSURE LIMIT | | OSHA | | ACGIH | | CARCINOGENIC |
|----------------------------------|-------------------|------|------|-------|------|--------------|
| COMPONENT | UNITS | TWA | STEL | TLV | STEL | |
| Ester (Polyol Ester) | mg/m ³ | N.D. | N.D. | N.D. | N.D. | No |
| Alkylated Phenol & Benzotriazole | mg/m ³ | N.D. | N.D. | N.D. | N.D. | No |

PERSONAL PROTECTION MEASURES

| | |
|-------------------|--|
| EYE | Safety glasses (ANSI Z87.1) or approved equivalent. |
| SKIN | Strongly recommend protective gloves, especially for prolonged exposures. Gloves should be removed immediately if there is any indication of degradation or chemical breakthrough. Long sleeved clothing to minimize skin contact. |
| INHALATION | Use in well ventilated area. If mist is being generated and exceeds the TWA/TLV listed above than a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. |

| SECTION IX: PHYSICAL & CHEMICAL PROPERTIES | | | |
|--|------------------------------------|----------------------------|-------------------------|
| APPEARANCE | Clear | SPECIFIC GRAVITY (WATER=1) | 0.94-0.97 |
| PHYSICAL STATE | LIQUID | FLASH POINT ° COC | 230-300°C |
| COLOR | Gray to yellow or light brown tint | FIRE POINT | N.D. |
| ODOR | mild distinct | VISCOSITY SUS | 100-2400 |
| VAPOR PRESSURE | 0.01mm of Hg (@ 20C) | MELTING POINT(POUR POINT) | 0 |
| VAPOR DENSITY (AIR=1) | NOT APPLICABLE | SOLUBILITY IN WATER | Insoluble in cold water |

| SECTION X: STABILITY & REACTIVITY | |
|-----------------------------------|---|
| STABILITY: | Stable. |
| CONDITIONS TO AVOID: | Excessive heat, formation of oil mist. |
| MATERIAL TO AVOID: | Strong oxidizers, caustic or acidic solutions such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, smoke on combustion, COx, etc. |
| HAZARDOUS DECOMPOSITION: | Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned. See Section 5. |
| HAZARDOUS POLYMERIZATION: | Will not occur. |

| SECTION XI: TOXICOLOGICAL INFORMATION | |
|--|---|
| Toxicity data for a similar material is listed below | |
| Skin irritation | May cause irritation and possible dermatitis. |
| Eye Irritation | Slight irritation. |

| SECTION XII: WASTE DISPOSAL |
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| Incinerate this product and all associated wastes in a licensed facility in accordance with Federal, State, and local regulations. |

| SECTION XIV: REGULATORY INFORMATION | | | | |
|-------------------------------------|------|------|----------------|---------------|
| Degree of Hazard | NFPA | HMIS | HAZARD RATINGS | |
| Health | 0 | 0 | 0 | Insignificant |
| Fire | 1 | 1 | 1 | Moderate |
| Reactivity | 0 | 0 | 2 | High |
| Specific Hazards | None | | 3 | Extreme |
| Personal Protection Index | | B | 4 | Extreme |

SECTION XIV: Transport Information

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warning are not applicable for this product. Therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO USE, HANDLE, STORE, TRANSPORT OR ARE OTHERWISE EXPOSED TO THIS PRODUCT. WE BELIEVE THE INFORMATION IN THIS DOCUMENT TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKE NO GUARANTEE THAT IT IS.