



MATERIAL SAFETY DATA SHEET

Solest Series

SECTION 1: General Information

| | | |
|-----------------------------|----------------|-----------------------|
| Manufacturer/Supplier Name: | Phone : | 248-348-4920 |
| BVA OILS | Emergency : | CHEMTRAC |
| 48845 West Road | | 1-800-424-9300 |
| Wixom, Mi 48393-0301 | Date prepared: | 01/10/02 |

SECTION II: COMPONENT INFORMATION

| Chemical Name | CAS REG NO. | PERCENTAGE (%) |
|----------------------|-------------|----------------|
| Ester (Polyol Ester) | Proprietary | Proprietary |

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE

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|------------------------------|---|
| EYE : | May cause eye irritation. |
| INHALATION : | Product is not toxic by inhalation. If oil mist is inhaled, remove to fresh air and consult physician. |
| INGESTION : | Do Not Take Internally. Consult physician at once. Low toxicity on ingestion, may cause nausea and diarrhea. |
| SKIN : | Minimally irritating. Prolonged contact can cause dermatitis. |
| THRESHOLD LIMIT VALUE | not established |
| SITUATIONS TO AVOID | Avoid breathing oil mists |

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.

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

SECTION IV : FIRST AID PROCEDURES

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| EYE : | Flush eyes with water for 15 minutes and consult physician. |
| SKIN: | Upon contact with skin, wash with soap and water. 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 and consult physician.. |
| INGESTION : | Consult physician at once. May cause nausea and diarrhea. |

| SECTION V : FIRE FIGHTING PROCEDURES | | | |
|---|---|------------------|-----------------|
| This product is: Combustible | | | |
| FLASH POINT ☐C= OPEN CLEVELAND OPEN CUP | 230-300☐C | FLAMMABLE LIMITS | not established |
| AUTOIGNITION TEMPERATURE | no data | | |
| UNUSUAL HAZARDS : | none | | |
| EXTINGUISHING AGENTS : | Dry chemical, CO2 foam, water fog (see below) | | |
| PROTECTIVE CLOTHING : | Fire-fighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear. | | |
| FIRE-FIGHTING PROCEDURES : | Burning fluid may evolve irritating/noxious fumes. 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 | |
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| PERSONAL PROTECTION : | Wear suitable protective equipment, especially splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly. |
| PROCEDURES: | Floor may be slippery: Use care to avoid falling. Stop source of spill. Dike spill area. Use absorbent materials to soak up fluid (i.e. sand, sawdust, and commercially available materials). Wash spill area with large amounts of water. Properly dispose of all materials. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. |

| SECTION VII : HANDLING AND STORAGE |
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| 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 |
| PERSONAL PROTECTION MEASURES | | | | | | |
| EYE/ FACE | Safety glasses/goggles (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. | | | | | |
| VENTILATION | Local exhaust | | | | | |

| 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 (@ 20°C | MELTING POINT(POUR POINT) | 0 |
| VAPOR DENSITY (AIR=1) | NOT APPLICABLE | SOLUBILITY IN WATER | Negligible |
| BOILING POINT | > 650°F | VOLATILES, % BY VOLUME | 0% |
| EVAPORATION RATE (BUTYL ACETATE = 1) | Nil | | |

| SECTION X : STABILITY & REACTIVITY | |
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| 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. |
| This product may degrade some paints and rubber materials. | |

SECTION XI: TOXICOLOGICAL INFORMATION

Toxicity data for a similar material is listed below

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|-----------------|---|
| Skin irritation | May cause irritation and possible dermatitis. |
| Eye Irritation | Slight irritation. |

SECTION XII : WASTE DISPOSAL

Incinerate this product and all associated wastes in a licensed facility in accordance with Federal, State, and local regulations.

SECTION XIII : 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. **All components used in the production of this product are TSCA approved.**

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.