



MATERIAL SAFETY DATA SHEET

BVA ALKYL 100E

SECTION 1: General Information

| | | |
|-----------------------------|----------------|----------------|
| Manufacturer/Supplier Name: | Phone : | 248-348-4920 |
| BVA OILS | Emergency : | CHEMTRAC |
| 48845 West Road | | 1-800-424-9300 |
| Wixom, Mi 48393-6042 | Date prepared: | 01/10/2002 |

SECTION II: COMPONENT INFORMATION

| Chemical Name | CAS NO. OF COMPONENTS | APPROXIMATE CONCENTRATION |
|------------------------------------|-----------------------|---------------------------|
| Synthetic Alkylated Aryl Compounds | Mixture | 100% |

All components of this product are listed on the U.S. TSCA inventory.

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE

Eye : Irritating to eyes, but does not damage tissue.

Inhalation : If sprayed or misted may cause chemical pneumonia, headache, dizziness, etc.

Ingestion : Low toxicity on ingestion, has laxative effect.

Skin : Minimally irritating. Prolonged contact can cause dermatitis.

SECTION IV : FIRST AID PROCEDURES

Eye : Copious warm water flush for 15 minutes. If irritation persists seek physician assessment.

Skin: Wash skin with soap and water. Remove contaminated clothing-Launder or dry clean clothes before reuse. Dispose of leather articles. If product is injected into or under the skin individual should be treated by the physician as a surgical emergency.

Inhalation : Evacuate to a safe area with plenty of fresh air. Apply cardiopulmonary resuscitation if required. Administer oxygen if available. If resuscitation required, seek medical aid immediately.

Ingestion : DO NOT induce vomiting. Drink 2-3 cups of mild or waterlots of fluids. Call a physician immediately.

SECTION V : FIRE FIGHTING PROCEDURES

This product is: Combustible

| | | |
|-----------------------------------|-------------------------------------|-----------------------|
| FLASH POINT Å = OPEN CUP | 356 Å (180 Å) | LOWER EXPLOSIVE LIMIT |
|-----------------------------------|-------------------------------------|-----------------------|

UNUSUAL HAZARDS : Burning fluid may evolve irritating/noxious fumes, smoke, carbon monoxide, and minor amounts of sulfur and nitrogen.

| | |
|----------------------------------|--|
| Extinguishing Agents : | Agents approved for Class B fire hazards, such as dry chemical, carbon dioxide, halogenated agents, foam, steam or water fog. |
| Protective Clothing : | Firefighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear. |
| Firefighting Procedures : | If safe to do so, shut off source of spill. Cover with extinguishing agent. Use water spray to cool fire exposed containers and as a protective screen. DO NOT point solid water stream directly into burning oil to avoid spreading of fire. Wear self-contained breathing apparatus. |

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.

"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 | |
| Synthetic Alkylated Aryl Compounds | | mg/m3 | 5 - oil mist for 8 hour day | | 10 oil mist for 8 hour day | | non carcinogenic |
| 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 | Yellow | SPECIFIC GRAVITY (WATER=1) | 0.86 |
| PHYSICAL STATE | LIQUID | Molecular weight | |
| COLOR | Yellow | EVAPORATION RATE BAC=1 | |
| ODOR | Mild bland odor | VISCOSITY SUS | 29-35cSt @ 40C |
| VAPOR DENSITY (AIR=1) | | SOLUBILITY IN WATER | Practically insoluble in water |

SECTION X : STABILITY & REACTIVITY

| | |
|---------------------------|---|
| STABILITY: | Stable |
| CONDITIONS TO AVOID: | Excessive heat, formation of oil mist. |
| MATERIAL TO AVOID: | Strong oxidants 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 XIII : WASTE DISPOSAL

Consult your local or regional authorities.

SECTION XIV : REGULATORY INFORMATION

| Degree of Hazard | NFPA | HMIS | HAZARD RATINGS | |
|---------------------------|------|------|----------------|---------------|
| Health | 1 | 1 | 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

BVA ALKYL 100E MSDS

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.