



MATERIAL SAFETY DATA SHEET

Copeland 998A-100-001 & 05

SECTION 1: General Information

Manufacturer/Supplier Name:	Phone :	248-348-4920
BVA OILS	Emergency :	CHEM TRAC
48845 West Road		1-800-424-9300
Wixom, Mi 48393-6042	Date prepared:	6-22-00

SECTION II: COMPONENT INFORMATION

Chemical Name	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Synthetic Alkylated Aryl Compounds	Mixture	100%
This product does not contain polychlorinated biphenyls (PCB S).		
All components of this product are listed on the U.S. TSCA inventory.		

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE

EYE :	May cause eye irritation.
INHALATION :	If sprayed or misted may cause chemical pneumonitis.
INGESTION :	Low toxicity on ingestion , has laxative effect.
SKIN :	Minimally irritating. Prolonged contact may cause skin irritation.
Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.	
THIS PRODUCT DOES NOT REQUIRE A CANCER HAZARD WARNING.	

SECTION IV : FIRST AID PROCEDURES

EYE :	If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists call a physician .
SKIN:	In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water. Launder or dry-clean clothing before reuse. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

SECTION IV : FIRST AID PROCEDURES (Cont)

INHALATION :	Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist remove from further exposure until excessive oil mist condition subsides.
INGESTION :	DO NOT induce vomiting. Call a physician immediately.

SECTION V : FIRE FIGHTING PROCEDURES

This product is: Combustible			
FLASH POINT CLEVELAND OPEN CUP, ASTM D 92	186 C 367 F	Lower Flammable Limit	0.9 %
AUTO IGNITION TEMPERATURE	385 C >725 F	Upper Flammable Limit	7 %
UNUSUAL HAZARDS :	Burning fluid may evolve irritating/noxious fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.		
EXTINGUISHING AGENTS :	Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents.		
PROTECTIVE CLOTHING :	Firefighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear.		
FIREFIGHTING PROCEDURES :	Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed. 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:	Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of sewers and water courses by diking or impounding. Advise authorities if product has entered or may enter sewers, water courses, or extensive land area. Assure conformity with applicable governmental regulations.
This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802)	

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.

Use product with caution around heat, sparks, pilot lights, static electricity, and open flames.

"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 refill or clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconitioner. 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), splash goggles or face shield when eye contact may occur.
SKIN	Strongly recommend protective gloves, (use chemical-resistant 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. Use supplied-air respiratory protection in confined or enclosed spaces, if needed..
VENTILATION	Use local exhaust to capture vapor, mists or fumes. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.
OTHER PROTECTIVE EQUIPMENT	Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

SECTION IX : PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	Clear	SPECIFIC GRAVITY (15.6 C/15.6 C)	0.87
PHYSICAL STATE	LIQUID	Molecular weight	Approximately 410
COLOR	Yellow	VAPOR PRESSURE	< 6mm Hg @ 54 C (129 F)
EVAPORATION RATE @ 1 ATM. And 25 C (77 F) (n-BUTYL ACETATE = 1)	less than 0.01	% VOLATILE BY VOLUME	Negligible from open container in 4 hours @ 38 C, (100 F)
pH	essentially neutral	MELTING POINT(POUR POINT by ASTM D 97)	- 17 F, -27 C
VAPOR DENSITY (AIR=1)	> 5	SOLUBILITY IN WATER @ 1 ATM	negligible, < 0.1%
BOILING RANGE IBP by ASTM D 2887	332 C, 630 F	ODOR	Mild bland odor
VISCOSITY	96 cSt @ 40 C		

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, etc., as this presents a serious explosion hazard.
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 similiar material is listed below	
Dermal LD50 - (Rabbit)	> 3.16 g/kg
Oral LD50 - (Rat)	> 5 g/kg
Skin irritation	May cause irritation and possible dermatitis.
Eye Irritation	Slight irritation
Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.	

SECTION XII : WASTE DISPOSAL

Consult your local or regional authorities.	
THRESHOLD PLANNING QUANTITY (TPQ) (SARA Sections 301 - 304)	No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).
TOXIC CHEMICAL RELEASE REPORTING (SARA Section 313)	No toxic chemical is present greater than 1% or 0.1% (carcinogen).
HAZARDOUS CHEMICAL REPORTING (SARA Sections 311 - 312)	Not applicable

SECTION XIII : 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

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.