

VALVTECT A DIVISION OF
KOP-COAT, INC.
3400 DUNDEE ROAD
NORTHBROOK
IL 60062

EMERGENCIES

HEALTH/SPI LLS.: 800-548-0489
CHEMTREC ASSI STANCE: 800-424-9300
CHEMTREC OUTSIDE US: 703-527-3887
CANUTEC.: 613-996-6666

VALVTECT A DIVISION OF

PRODUCT INFORMATION: 847-272-2278
OUTSIDE USA.: 847-272-2278

1 PRODUCT IDENTIFICATION

PRODUCT NAME: ValvTect Marine Gasoline Additive
PRODUCT USE.: Fuel additive
APPEARANCE.: Liquid
CAS NUMBER.: Mixture
SYNONYMS.: None

REVISION.: 2
DATE.: 10/16/08
MSDS NUMBER: VMGABK

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
Pol y o l e f i n a l k y l p h e n o l a l k y l a m i n e CAS NUMBER: TR SECRET ALKAM PERCENT BY WGT: 1 TO 5			(None established.)		
A l k y l p h e n o l P o l y o x y a l k y l a l k y l a m i n e CAS NUMBER: TR SECRET-AKPOL PERCENT BY WGT: 10 TO 15			(None established.)		
Ethyl benzene CAS NUMBER: 100-41-4 PERCENT BY WGT: 1 TO 5	ACGI H STEL ACGI H-TWA NIOSH NIOSH STEL OSHA STEL OSHA TWA	125 100 100 125 125 100		543 434 435 545 545 435	
N-Propyl benzene CAS NUMBER: 103-65-1 PERCENT BY WGT: 1 TO 5			(None established.)		
Benzene, 1,3,5-trimethyl			(None established.)		

 2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
CAS NUMBER: 108-67-8 PERCENT BY WGT: 1 TO 5					
Ethylene glycol monobutyl ether (skin)	ACGIH-TWA	25		121	
	NIOSH	25		120	
CAS NUMBER: 111-76-2 PERCENT BY WGT: 15 TO 20	OSHA TWA	25		120	
Xylene	ACGIH STEL	150		651	
CAS NUMBER: 1330-20-7	ACGIH-TWA	100		434	
PERCENT BY WGT: 1 TO 5	NIOSH	100		435	
	NIOSH STEL	150		655	
	OSHA STEL	150		655	
	OSHA TWA	100		435	
Benzene, 1,2,3-trimethyl - CAS NUMBER: 526-73-8 PERCENT BY WGT: 1 TO 5			(None established.)		
Petroleum distillates	ACGIH STEL	-		10	
CAS NUMBER: 64742-46-7	ACGIH TWA	-		5	
PERCENT BY WGT: 30 TO 35	OSHA TWA	-		5	
Mineral spirits	ACGIH TWA	100		525	
CAS NUMBER: 64742-47-8	NIOSH	-		350	
PERCENT BY WGT: 5 TO 10	NIOSH STEL	-		1800	4
	OSHA TWA	100		525	
Petroleum Distillates	OSHA PEL	100		-	
CAS NUMBER: 64742-94-5 PERCENT BY WGT: 10 TO 15					
Tertiary Butylated Phenol CAS NUMBER: 68610-06-0 PERCENT BY WGT: 1 TO 5			(None established.)		
Naphthalene	ACGIH STEL	15		79	
CAS NUMBER: 91-20-3	ACGIH TWA	10		52	
PERCENT BY WGT: < 1	NIOSH	10		50	
	NIOSH STEL	15		75	
	OSHA STEL	15		75	
	OSHA TWA	10		50	
1,2,4 Trimethyl benzene CAS NUMBER: 95-63-6 PERCENT BY WGT: 1 TO 5			(None established.)		
Cumene (skin)	ACGIH TWA	50		246	

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
CAS NUMBER: 98-82-8	NIOSH	50		245	
PERCENT BY WGT: 1 TO 5	OSHA TWA	50		245	

NOTES:

- 4) The short term exposure limit (STEL) is a 15-minute TWA exposure that should not be exceeded at any time during a workday.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Combustible liquid and vapor. Harmful or fatal if swallowed, can enter lungs and cause damage.

EYES: May cause moderate to severe eye irritation. Not expected to cause permanent damage if promptly rinsed from eyes.

SKIN: May cause skin irritation. Prolonged and/or repeated contact with the skin may cause irritation characterized by redness, cracking and blistering. May be absorbed in toxic amounts through the skin and cause systemic effects.

INHALATION: Inhalation of high concentrations of vapors may cause respiratory tract irritation and central nervous system depression. Symptoms include headache, weakness, dizziness, nausea and loss of coordination. Continued inhalation may result in unconsciousness or death. Reports have associated repeated and prolonged overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia.

INGESTION: Swallowing small amounts during normal handling is not likely to cause adverse effects. Swallowing larger amounts may cause gastrointestinal disturbances such as nausea, vomiting, and diarrhea. Aspiration of this product into the lungs may cause chemical pneumonitis, which can be fatal.

Individuals with pre-existing disease or a history of ailments involving the skin, eyes, respiratory tract, liver, kidney, or central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

Ethyl benzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals.

Naphthalene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence of carcinogenicity in experimental animals.

4 FIRST AID MEASURES

4 FIRST AID MEASURES

EYE CONTACT: Immediately flush the eyes with lukewarm, gently flowing water for at least 20 minutes, while holding the eyelids open. Take care not to rinse contaminated water into the unaffected eye or face. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN CONTACT: Wash affected areas immediately with non-abrasive soap and lukewarm water for 15-20 minutes. Under running water, remove contaminated clothing, shoes, and leather goods (i.e. watchbands, belts). Call a poison control center or doctor for treatment advice. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

INHALATION: Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary edema may be delayed up to 48 hours after exposure. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have person drink 8-10 oz (240-300 mL) of water to dilute material in stomach. If milk is available, it may be administered AFTER the water has been given. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Quickly transport person to emergency care facility.

NOTE TO PHYSICIAN: Mucosal damage may contraindicate the use of gastric lavage. Pulmonary aspiration hazard if swallowed. Treat symptomatically.

5 FIRE FIGHTING MEASURES

FLASH POINT: 120 F/ 49 C

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABLE LIMITS (% by volume/air)

Lower Limit: Not determined.

Upper Limit: Not determined.

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, or foam.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Do not put in contact with oxidizing or caustic materials.

FIRE AND EXPLOSION HAZARDS: Product is combustible. Product vapors may travel considerable distance to a source of ignition and flash back.

6 SPILL AND LEAK PROCEDURES

6 SPILL AND LEAK PROCEDURES

SMALL SPILL: Stop the flow of material. Absorb with non-flammable suitable absorbent such as sand or earth. Scoop/shovel absorbed material into container.

LARGE SPILL: Dike and contain spill. Pump to storage or salvage vessels. Contain run-off from fire control and dilution water. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities that a spill has occurred. Eliminate ALL sources of ignition. Ventilate area.

7 HANDLING AND STORAGE

Handling Procedures: Avoid prolonged or repeated skin contact with this material. Avoid eye contact with this material. Avoid prolonged or repeated breathing of this material. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Use this product with adequate ventilation.

Storage Procedures: Do not store near heat, sparks, open flame or strong oxidizing agents. Do not store this material in open, unlabeled containers. Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Empty containers retain product residue (liquid 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.

Ground and bond containers when transferring material, as applicable.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient general / local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and below flammable vapor concentrations. Ventilation rates should be matched to use conditions. Supplementary local exhaust ventilation may be needed in poorly ventilated spaces, during spraying, heating or other non-routine activities.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Industrial safety glasses, side shields, and as necessary, faceshield.

HAND/SKIN PROTECTION: Chemical resistant, flexible-type gloves (neoprene, nitrile or equal) to prevent contact. Gloves should be rinsed and removed immediately after use. Wash hands after removing gloves. Wear chemical resistant garments if contact is unavoidable.

RESPIRATORY PROTECTION: Respiratory protection may be necessary under certain

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

use conditions. A NIOSH-approved respirator should be selected on the basis of the form and concentration of the contaminant.

OTHER: Facilities utilizing this material should be equipped with an eyewash station and safety shower. Thoroughly clean shoes and wash contaminated clothes before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs):	7.195	% VOL by Weight.:	Not determined
Vapor Density.:	Not determined	Boiling Point.:	Not determined
Vapor Pressure:	Not determined	Evaporation Rate:	Not determined
pH.:	Not determined	Specific Gravity:	0.864
Solubility In Water:	Insoluble	Viscosity.:	Not determined
VOC Content.:	Not determined		

10 STABILITY AND REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY: Strong oxidizers and reducers.

HAZARDOUS DECOMPOSITION PRODUCT(S): Carbon dioxide, carbon monoxide, oxides of nitrogen, and other toxic organic compounds.

11 TOXICOLOGICAL INFORMATION

No data available on the product as a whole.

Naphthalene: Laboratory animals exposed to high levels of naphthalene showed evidence of red blood cell destruction with anemia, fever, jaundice and kidney and liver damage. Naphthalene caused an increased incidence of tumors in the nose in rats.

Ethylbenzene: Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

2-Butoxyethanol (CAS# 111-76-2): Laboratory studies on experimental animals indicate that exposure may cause red blood cell damage, and damage to the kidney

11 TOXICOLOGICAL INFORMATION

and liver. These effects have not been observed in humans. Laboratory animal studies have reported adverse reproductive and developmental effects from over-exposure to 2-butoxyethanol.

12 ECOLOGICAL INFORMATION

Product has not been tested for ecotoxicity.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

14 TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSPORTATION REPORTABLE QUANTITIES

REPORTABLE QTY (LBS)	HAZARDOUS SUBSTANCE
100	Xylene

DOT SHIPPING INFORMATION FOR GROUND TRANSPORTATION ONLY:

DOT PROPER SHIPPING NAME: Combustible liquid, n.o.s. (contains petroleum distillates)

DOT HAZARD CLASS: 3

PACKING GROUP: III

DOT IDENTIFICATION NUMBER: NA1993

DOT SHIPPING INFORMATION FOR AIR TRANSPORTATION (IATA):

DOT PROPER SHIPPING NAME: Flammable liquid, n.o.s. (contains petroleum distillates)

DOT HAZARD CLASS: 3

PACKING GROUP: III

DOT IDENTIFICATION NUMBER: UN1993

15 REGULATORY INFORMATION

SARA TITLE III SECTION 313 CHEMICALS

Ethyl benzene

Ethylene glycol monobutyl ether (skin)

Xylene

Naphthalene

1,2,4 Trimethyl benzene

Cumene (skin)

15 REGULATORY INFORMATION

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

No additional information available.

16 OTHER INFORMATION

NOTICE: This document is generated for the purpose of distributing health, safety and environmental data. The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. Kop-Coat makes no warranty with respect thereto and disclaims all liability from reliance thereon.

PREPARED BY: Manager of Health, Safety and Environmental Affairs.