

## MATERIAL SAFETY DATA SHEET

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

EMERGENCIES

HEALTH/SPILLS.....: 800-548-0489  
CHEMTREC ASSISTANCE: 800-424-9300  
CANUTEC.....: 613-996-6666

VALVTECT

PRODUCT INFORMATION: 800-728-8258  
OUTSIDE USA.....: 847-272-2278

1 PRODUCT/COMPANY IDENTIFICATION

PRODUCT NAME: Protective Lead Substitute w/VT6000 (LSA-16 & 55)  
PRODUCT USE.: Fuel additive  
APPEARANCE...: Clear liquid which may contain a colorant for identification purposes  
CAS NUMBER...: Mixture

REVISION.....: 3  
DATE.....: 04/02/97  
MSDS NUMBER...: VAL002

2 HAZARDOUS INGREDIENTSHAZARDOUS

<u>INGREDIENT/CAS #</u>	<u>% BY WT.</u>	<u>EXPOSURE LIMIT (PPM;MG/M3)</u>
Kerosene, may include: CAS #8008-20-6	70-75	NIOSH-REL-TWA - 100
Benzene(+) CAS #71-43-2	<2	ACGIH-TLV 10 32 OSHA-TWA 10 - OSHA-CEIL. 25 - NIOSH 0.1 - NIOSH-STEL 1** -
Toluene (skin) CAS #108-88-3	<1	ACGIH-TLV 50 188 OSHA-TWA 100 375 OSHA-STEL 150 560 NIOSH 100 375 NIOSH-STEL 150 560
Xylene CAS #1330-20-7	<2	ACGIH-TLV 100 434 ACGIH-STEL 150 651 OSHA-TWA 100 435 OSHA-STEL 150 655 NIOSH 100 435 NIOSH-STEL 150 655
1,2,4-Trimethylbenzene CAS #95-63-6	<3	*

**2 HAZARDOUS INGREDIENTS (CONT'D)**

n-Nonane	<2	ACGIH-TLV	200	1050
CAS #111-84-2		OSHA-TWA	200	1050
NJ Trade Secret	10-15	*		
#00850201001-5023				

(+) NIOSH Occupational Carcinogen

\* None established

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

**3 HAZARDOUS IDENTIFICATION**

**EYE:** Direct contact with liquid or vapor may cause irritation.

**SKIN:** Prolonged and/or repeated contact with the skin may cause irritation characterized by redness, cracking and blistering.

**INHALATION:** Inhalation of high concentrations of vapors may cause respiratory tract irritation and central nervous system depression characterized by headache, weakness, dizziness, incoordination and possible collapse.

**INGESTION:** May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea and effects similar to those described under INHALATION. Aspiration of this product into the lung may cause chemical pneumonitis which can be fatal.

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

**4 FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Wash thoroughly with soap and cool water for at least 15 minutes. If redness, itching, burning or other symptoms develop or persist, get medical attention. Wash contaminated clothing before reuse.

**INHALATION:** Remove to fresh air. If breathing has stopped, have a trained person administer artificial respiration preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. Keep at rest.

#### **4 FIRST AID MEASURES (CONT'D)**

**INGESTION:** Do NOT induce vomiting. Give 1 glass of milk or 1 to 2 oz. (30 to 60g) of activated charcoal in water to victim as tolerated. Get medical attention. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**NOTE TO PHYSICIAN:** There is no specific antidote for effects from overexposure to this material. Treatment should be directed at the control of symptoms and the clinical condition.

#### **5 FIRE AND EXPLOSION DATA**

**FLASH POINT:** 110F/43C

**AUTOIGNITION TEMPERATURE:** No information available

**FLAMMABLE LIMITS (% volume/air)**

**Lower Limit:** No information available

**Upper Limit:** No information available

**EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical, water spray 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.

**FIRE AND EXPLOSION HAZARDS:** When heated (fire conditions), can release toxic vapors. Vapors may form combustible mixture with air. Vapors can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat (fire).

#### **6 SPILL AND LEAK PROCEDURES**

Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition. Ventilate area. Avoid contact with liquid and fumes. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials.

#### **7 HANDLING AND STORAGE**

**HANDLING:** Avoid prolonged or repeated contact with skin or eyes. Avoid prolonged or repeated breathing of vapors, mists or fumes. Observe good personal hygiene practices and recommended procedures.

**STORAGE:** Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

**OTHER:** Keep away from heat and open flame.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** The use of local exhaust ventilation is recommended to control process emissions and to control inhalation exposures below current exposure limits. See OSHA requirements/NIOSH publication 87-113 "Confined Spaces".

**RESPIRATORS:** Not required under normal use conditions. If ventilation is inadequate to maintain personal inhalation exposures below TLV (PEL), use appropriate MSHA/NIOSH approved respiratory protection to comply with current 29 CFR 1910.134 and manufacturer's "Instructions" and "Warnings".

**OTHER CLOTHING:** Safety glasses; chemical goggles; face shield, as necessary. As required, chemical-resistant flexible-type gloves (heavy-duty neoprene or equal). Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential, wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls boots, etc.

## 9 PHYSICAL DATA

Weight Per Gallon (lbs): 7.34	Freezing Point...:	Not determined
Vapor Density...: (Air=1) >1	Boiling Point...:	Not determined
Vapor Pressure...: Not determined	Evaporation Rate:	Not determined
pH.....: Not determined	Specific Gravity:	0.88
Solubility In Water: Insoluble	Viscosity.....:	Not determined
Physical State.....: Liquid		

## 10 REACTIVITY DATA

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY:** Avoid oxidizing agents, heat, sparks and open flames.

**HAZARDOUS DECOMPOSITION PRODUCT(S):** Carbon monoxide and carbon dioxide upon thermal decomposition

## 11 TOXICOLOGICAL DATA

IARC Monograph Supplement 7 states that there is sufficient evidence for the carcinogenicity of Benzene to humans and animals.

Numerous case reports and series have suggested a relationship between exposure to Benzene and the occurrence of various types of leukemia.

## 12 ECOLOGICAL DATA

This product has not been tested for ecotoxicity.

**13 DISPOSAL CONSIDERATIONS**

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

**14 TRANSPORTATION INFORMATION**

**DOT PROPER SHIPPING NAME:** Combustible liquid, n.o.s. (contains Kerosene)

**DOT HAZARD CLASS:** Combustible liquid

**LABEL:** None

**DOT IDENTIFICATION NUMBER:** NA 1993

**DOT REPORTABLE QUANTITIES:**        10 lbs.    Benzene  
   100 lbs.   Xylene

**15 REGULATORY INFORMATION**

**SARA TITLE III -** Benzene  
                         Xylene  
                         Toluene  
                         1,2,4-Trimethylbenzene

**WARNING:**    This product contains a chemical 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.

**16 OTHER INFORMATION**

**NOTICE:**    While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc., makes no warranty with respect thereto and disclaims all liability from reliance thereon.

**PREPARED BY:**    L. Briggs, Manager Environmental and Regulatory Affairs