

# Material Safety Data Sheet

Product Name: **Orange Indicating Liquid**

Product Part Number: **6380**

This product is a mixture of two or more chemicals as defined under O.S.H.A. standard 29 CFR 1910.1200. An individual MSDS for each chemical ingredient which comprises 1% or greater of the mixture (for Carcinogens concentrations of 0.1% or greater) is included with and is considered as part of the complete material safety data sheet.

## Chemical Ingredient No. 1

Common Name: .....Mineral Seal Oil  
 Chemical Name: .....N/A  
 Chemical Formula: .....N/A  
 Percent of Mixture (by volume): .....70 - 100%  
 Manufacturer: .....Ashland Chemical Co.  
 MSDS: .....Attached

## Chemical Ingredient No. 2

Common Name: .....Diazene-42  
 Chemical Family: .....Brominated ethylbenzene isomers  
 Percent of Mixture (by volume): .....0 - 5%  
 Manufacturer: .....Diaz Chemical Corp.  
 MSDS: .....Attached

## Chemical Ingredient No. 3

Common Name: .....Kerosene  
 Chemical Name: .....N/A  
 Chemical Formula: .....N/A  
 Percent of Mixture (by volume): .....0 - 30%  
 Manufacturer: .....Sun Refining & Marketing Co.  
 MSDS: .....Attached

## Chemical Ingredient No. 4

Common Name: .....Orange Dye  
 Percent of Mixture (by volume): .....Less than 1%

The information herein is provided in good faith, but no warranty, either expressed or implied, is made by King Engineering.



**MATERIAL SAFETY  
DATA SHEET**

24-HOUR EMERGENCY TELEPHONE (606) 324-1133

000842

**MINERAL SEAL OIL**

Page: 1

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: MINERAL SEAL OIL  
CAS NUMBER: 64742-06-9

05 50 027 4962920-

Data Sheet No:	0000592-006
Prepared:	05/24/88
Supersedes:	11/17/87

KING ENGINEERING  
3201 SOUTH STATE STREET  
ANN ARBOR MI 48106

PRODUCT: 2524000  
INVOICE: 991688  
INVOICE DATE: 09/23/87  
TO: SAME

ATTN: PLANT MGR./SAFETY DIR.

**SECTION I PRODUCT IDENTIFICATION**

General or Generic ID: ALIPHATIC HYDROCARBON

DOT Hazard Classification: NOT APPLICABLE

**SECTION II-COMPONENTS**

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS ARE IDENTIFIED IN THIS SECTION  
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	PEL	TLV	Note
ALIPHATIC PETROLEUM DISTILLATES CAS #: 64742-06-9	>95	5 MG/M3	5 MG/M3	

**SECTION III-PHYSICAL DATA**

Boiling Point	for PRODUCT	390.00 - 520.00 Deg F ( 198.88 - 271.11 Deg C ) @ 760.00 mm Hg
Vapor Pressure	for PRODUCT	< 0.01 mm Hg @ 68.00 Deg F ( 20.00 Deg C )
Specific Vapor Density		HEAVIER THAN AIR
Specific Gravity		.840 - .816 @ 60.00 Deg F ( 15.55 Deg C )
Percent Volatiles	NOT APPLICABLE	
Evaporation Rate	(N-BUTYL ACETATE = 1)	< .01

**SECTION IV-FIRE AND EXPLOSION INFORMATION**

FLASH POINT(COC ) 240.0 - 275.0 Deg F ( 115.6 - 135.0 Deg C )

EXPLOSIVE LIMIT (PRODUCT) LOWER - .9%

EXTINGUISHING MEDIA: REGULAR FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

NFPA CODES: HEALTH- 0 FLAMMABILITY- 2 REACTIVITY- 0

**SECTION V-HEALTH HAZARD DATA**

PERMISSIBLE EXPOSURE LEVEL 5 MG/M3

THRESHOLD LIMIT VALUE 5 MG/M3

EFFECTS OF ACUTE OVEREXPOSURE: FOR PRODUCT

EYES - MAY CAUSE IRRITATION.  
SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.  
BREATHING - OF MIST CAN CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.  
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

FIRST AID:

IF ON SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING, KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF

**MATERIAL SAFETY  
DATA SHEET****Ashland Chemical Company**

DIVISION OF ASHLANO OIL, INC.

P. O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

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**MINERAL SEAL OIL**

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**SECTION V-HEALTH HAZARD DATA (Continued)**

BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY:

SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE: FOR PRODUCT

THIS PRODUCT IS A PARAFFINIC PETROLEUM OIL SIMILAR IN NATURE TO THE MINERAL SEAL OIL WHICH EXXON COMPANY REPORTED TO THE EPA UNDER SECTION 8(E) OF THE TOXIC SUBSTANCE CONTROL ACT. THE REPORT WAS SUBMITTED BASED ON AN ONGOING MOUSE SKIN PAINTING STUDY WHICH SHOWED 8 OF AN ORIGINAL 50 ANIMALS DEVELOPED OBSERVABLE SKIN TUMORS.

**SECTION VI-REACTIVITY DATA**

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:, STRONG OXIDIZING AGENTS.

**SECTION VII-SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

**SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED**

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION II), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS:, POLYETHYLENE

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

**SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS**

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

**MATERIAL SAFETY  
DATA SHEET****Ashland Chemical Company**

DIVISION OF ASHLAND OIL, INC.

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**DEFINITIONS**

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

**SECTION I**  
**PRODUCT IDENTIFICATION**

**GENERAL OR GENERIC ID:** Chemical family or product description.

**DOT HAZARD CLASSIFICATION:** Product meets DOT criteria for hazards listed.

**SECTION II**  
**COMPONENTS**

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional information may be found in Section V. Other components may be listed if deemed appropriate.

Identities of components listed generically are declared trade secret.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELs) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

**SECTION III**  
**PHYSICAL DATA**

**BOILING POINT:** Of product if known. The lowest value of the components is listed for mixtures.

**VAPOR PRESSURE:** Of product if known. The highest value of the components is listed for mixtures.

**SPECIFIC VAPOR DENSITY:** Compared to AIR = 1. If Specific Vapor Density of product is not known, the value is expressed as lighter or heavier than air.

**SPECIFIC GRAVITY:** Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

**pH:** If applicable.

**PERCENT VOLATILES:** Percentage of material with initial boiling point below 425 degrees Fahrenheit.

**EVAPORATION RATE:** Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

**SECTION IV**  
**FIRE AND EXPLOSION DATA**

**FLASH POINT:** Method identified.

**EXPLOSION LIMITS:** For product if known. The lowest value of the components is listed for mixtures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** known or expected hazardous products resulting from heating, burning or other reactions.

**SECTION IV (cont.)**

**EXTINGUISHING MEDIA:** Following National Fire Protection Association criteria.

**FIREFIGHTING PROCEDURES:** Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

**SPECIAL FIRE AND EXPLOSION HAZARDS:** States hazards not covered by other sections.

**NFPA CODES:** Hazard ratings assigned by the National Fire Protection Association.

**SECTION V**  
**HEALTH HAZARD DATA**

**PERMISSIBLE EXPOSURE LIMIT:** For product.

**THRESHOLD LIMIT VALUE:** For product.

**EFFECTS OF ACUTE OVEREXPOSURE:** Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

**EFFECTS OF CHRONIC OVEREXPOSURE:** Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

**FIRST AID:** Procedures to be followed when dealing with accidental overexposure.

**PRIMARY ROUTE OF ENTRY:** Based on properties and expected use.

**SECTION VI**  
**REACTIVITY DATA**

**HAZARDOUS POLYMERIZATION:** Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

**STABILITY:** Conditions to avoid to prevent hazardous or violent decomposition.

**INCOMPATIBILITY:** Materials and conditions to avoid to prevent hazardous reactions.

**SECTION VII**  
**SPILL OR LEAK PROCEDURES**

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

**SECTION VIII**  
**PROTECTIVE EQUIPMENT TO BE USED**

Protective equipment which may be needed when handling the product.

**SECTION IX**  
**SPECIAL PRECAUTIONS OR OTHER COMMENTS**

Covers any relevant points not previously mentioned.

**ADDITIONAL COMMENTS**

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums, pails, etc.). Refer to Sections IV and IX.

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



**IDENTITY** (As Used on Label and List)  
DIAZENE-42

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

N/A= Not Available

Manufacturer's Name

DIAZ CHEMICAL CORPORATION

Emergency Telephone Number

(716) 638-6321

Address (Number, Street, City, State, and ZIP Code)

P.O. BOX 194

Telephone Number for Information

(716) 638-6321

40 JACKSON STREET

Date Prepared

May 28, 1986

HOLLEY, NEW YORK 14470

Signature of Preparer (optional)

*Marie J. Mac Clara*

## Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
BROMOETHYLBENZENES CAS# 1585-07-5	N/A	N/A	N/A	
DIBROMOETHYLBENZENES CAS# 30812-87-4	N/A	N/A	N/A	
TRIBROMOETHYLBENZENES CAS# 31195-17-2	N/A	N/A	N/A	

## Section III — Physical/Chemical Characteristics

Boiling Point 390-580°F	200-300°C	Specific Gravity (H <sub>2</sub> O - 1) 1.73-1.75	15/15°C
Vapor Pressure (mm Hg.)	N/A	Melting Point less than 0°C	N/A
Vapor Density (AIR - 1)	9.4	Evaporation Rate (Butyl Acetate - 1)	less than
Solubility in Water Negligible			
Appearance and Odor Clear liquid, colorless to light yellow, mothball odor			

## Section IV — Fire and Explosion Hazard Data

Flesh Point (Method Used) NONE, greater than 200°F	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media WATER, CO <sub>2</sub> , CHEMICAL FOAM			
Special Fire Fighting Procedures NONE			
Unusual Fire and Explosion Hazards NONE			

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid Avoid contact with finely divided reducing metals, such as powdered aluminum
	Stable	X	

Incompatibility (*Materials to Avoid*) Avoid contact with finely divided reducing metals

Hazardous Decomposition or Byproducts Hydrogen Bromide, Carbon Monoxide, Carbon Dioxide

Hazardous polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation? X	Skin? X	Ingestion? X
--------------------	------------------	------------	-----------------

Health Hazards (*Acute and Chronic*) INHALATION- Probable nasal irritation possible liver and kidney damage upon repeated or long term contact.

SKIN-May cause irritation

Carcinogenicity:	N/A	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure Nasal or skin irritation

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures SKIN-Wash with soap and water. EYE-Irrigate with large volumes of water. INGESTION-Induce vomiting. INHALATION-Remove to fresh air. See a physician.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled Position pail or drum to minimize leak. Absorb spilled material in absorbant such as clay, or other appropriate material.

Waste Disposal Method LIQUID- Incineration at Hazardous Waste Incineration Facility  
SOLIDS (from spill clean-up)- Landfill at Secure Chemical Landfill

Precautions to Be Taken in Handling and Storing Practice reasonable care to avoid skin and eye contact and to avoid breathing vapors.

Other Precautions N/A

**Section VIII — Control Measures**

Respiratory Protection (*Specify Type*) Organic Vapor Cannister

Ventilation	Local Exhaust "Adequate" Ventilation	Special	N/A
	Mechanical ( <i>General</i> ) N/A	Other	N/A

Protective Gloves Rubber Gloves Eye Protection Safety Glasses

Other Protective Clothing or Equipment Coveralls



Sun Refining and Marketing Company

MATERIAL SAFETY DATA SHEET

THIS PRODUCT SAFETY INFORMATION IS PROVIDED IN RESPONSE TO YOUR RECENT REQUEST. THANK YOU FOR YOUR INQUIRY.

APR 07 1986

SUN CODE

R000000005800

PRINTED: 86/03/29

SECTION 1 IDENTIFICATION

NAME KEROSENE 1-K CAS NAME HYDRDESULFURIZED KEROSENE CHEMICAL FAMILY PETROLEUM HYDROCARBON

SUN REFINING AND MARKETING COMPANY

TEN PENN CENTER 1801 MARKET STREET PHILADELPHIA PA 19103

ANN ARBOR MI 48104

ATTN: RONALD BODDY

INFORMATION SUPPLIED BY JONATHAN M. HAAS (215) 293-6321

SECTION 2 INGREDIENTS

HYDROTREATED LIGHT DISTILLATE, CAS #64742478 CONTAINING TRADE STATIC DISSIPATOR ADDITIVE. PRODUCT TYPICALLY CONTAINS LESS THAN 0.04% SULFUR.

SECTION 3 PHYSICAL DATA

BOILING POINT: 760 mm Hg 300 TO 500 °F, 149 TO 260 °C

MELTING POINT: N/A °F, N/A °C

SPECIFIC GRAVITY: (H2O=1) 0.81

PACKING DENSITY: (WHEN APPLICABLE) N/A

SECTION 4 FIRE AND EXPLOSION DATA (CONT. ON PAGE 2)

FLASH POINT: 125 MINIMUM TCC °F, 52 MINIMUM TCC °C

AUTOIGNITION TEMPERATURE: 444 ESTIMATED °F, 229 ESTIMATED °C

HAZARD RATING: LEAST 0 SLIGHT 1

MODERATE 2 HIGH 3 EXTREME 4

LOWER EXPLOSIVE LEVEL (LEL) 0.7 % VOL.

UPPER EXPLOSIVE LEVEL (UEL) 5.0 % VOL.

FLAMMABLE LIMITS IN AIR

FIRE AND EXPLOSION HAZARDS

COMBUSTIBLE (FLASH POINT 100 TO 200F)

SUN CODE R00000005800

**MATERIAL SAFETY DATA SHEET**

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SUN CODE

R001000005800

EXTINGUISHING MEDIA	SPECIAL FIRE FIGHTING INSTRUCTIONS
WATER FOG. CHEMICAL FOAM. DRY CHEMICAL POWDER. CARBON DIOXIDE.	WEAR SELF-CONTAINED BREATHING APPARATUS WHEN FIRE FIGHTING IN CONFINED SPACE.

**SECTION 5 HEALTH HAZARD INFORMATION**  
EXPOSURE LIMITS

8 HR. TIME WEIGHTED PERMISSIBLE EXPOSURE 100 PPM 500 MG/M3 • SUN RECOMMENDATION.

ROUTES OF EXPOSURE AND EFFECTS  
INHALATION EXCESSIVE EXPOSURES MAY CAUSE IRRITATION TO EYES, NOSE, THROAT.

SKIN PRACTICALLY NON-TOXIC IF ABSORBED (LD50 GREATER THAN 2000 MG/KG). MAY PRODUCE SKIN TUMORS WITH  
PROLONGED AND REPEATED CONTACT. MODERATE IRRITATION WITH PROLONGED OR REPEATED CONTACT.

EYE CONTACT WITH THE EYE MAY CAUSE MODERATE IRRITATION. TEMPORARY SMARTING. NO PERMANENT DAMAGE EXPECTED.

INGESTION HARMFUL OR FATAL IF SWALLOWED. PULMONARY ASPIRATION HAZARD IF SWALLOWED AND VOMITING OCCURS.

FIRST AID  
INHALATION MOVE PERSON TO FRESH AIR.

SKIN WASH WITH SOAP AND WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, OBTAIN MEDICAL  
ASSISTANCE. IMMEDIATELY REMOVE SOAKED CLOTHING. WASH CLOTHING BEFORE REUSE.

EYE FLUSH WITH WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

INGESTION DO NOT INDUCE VOMITTING! DO NOT GIVE LIQUIDS! OBTAIN MEDICAL ASSISTANCE. SMALL AMOUNTS WHICH  
ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE OF IT IS GONE.

**SECTION 6 REACTIVITY DATA (CONT. ON PAGE 3)**  
STABILITY

STRONG OXIDIZERS.	INCOMPATIBLE MATERIALS	HAZARDOUS DECOMPOSITION PRODUCTS
		CARBON MONOXIDE AND ASPHYXIANTS.



**MATERIAL SAFETY DATA SHEET**

PAGE 3

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**R000000005800**

**POLYMERIZATION**

**POLYMERIZATION WILL NOT OCCUR.**

**SECTION 7 PROTECTION INFORMATION**

**VENTILATION**

**VENTILATE AS NEEDED TO COMPLY WITH EXPOSURE LIMIT.**

**PERSONAL PROTECTIVE EQUIPMENT**

**EYE SPLASH PROOF CHEMICAL GOGGLES OR FULL FACE SHIELD RECOMMENDED TO PROTECT AGAINST SPLASH OF PRODUCT.**

**GLOVES IMPERVIOUS GLOVES RECOMMENDED TO PROTECT AGAINST CONTACT WITH PRODUCT.**

**RESPIRATOR CONCENTRATION-IN-AIR DETERMINES PROTECTION NEEDED. USE ONLY NIOSH CERTIFIED RESPIRATORY PROTECTION.**

**OTHER IF CONTACT IS UNAVOIDABLE, WEAR IMPERVIOUS PROTECTIVE GEAR. LAUNDRER SOILED CLOTHES.**

**SECTION 8 DISPOSAL PROCEDURES  
AQUATIC TOXICITY**

**NOT DETERMINED**

**SPILL, LEAK OR RELEASE**

**CONTAIN SPILL. ADVISE EPA; STATE AGENCY IF REQUIRED. ABSORB ON INERT MATERIAL.**

**WASTE DISPOSAL**

**FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. DO NOT FLUSH TO DRAIN/ STORM SEWER. INCINERATE UNDER CONTROLLED CONDITIONS. CONTRACT TO AUTHORIZED DISPOSAL SERVICE.**

**SECTION 9 SPECIAL PRECAUTIONS**

**STORAGE AND HANDLING CONDITIONS**

**KEEP AWAY FROM HEAT, SPARKS AND FLAME. NEPA CLASS II STORAGE. TRANSFER OPERATIONS MUST BE ELECTRICALLY GROUNDED AND BONDED TO DISSIPATE STATIC BUILDUP. AVOID PROLONGED BREATHING OF MIST OR VAPOR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER HANDLING. NEVER SIPHON BY MOUTH.**

**SECTION 10 PRECAUTIONARY LABEL (IF APPLICABLE)**

**KEROSENE. DANGER! HARMFUL OR FATAL IF SWALLOWED. IF SWALLOWED DO NOT INDUCE VOMITTING! OBTAIN MEDICAL HELP AT ONCE. KEEP OUT OF REACH OF CHILDREN. NEVER SIPHON BY MOUTH. COMBUSTIBLE: KEEP AWAY FROM HEAT AND OPEN FLAME. NEVER ADD FUEL TO AN OPERATING OR HOT KEROSENE HEATER. ALWAYS REFUEL KEROSENE HEATERS OUTDOORS. ONLY APPROVED METAL CONTAINERS SHOULD BE USED FOR STORAGE. CONTAINERS ARE HAZARDOUS WHEN EMPTY AS PRODUCT VAPOR OR LIQUID REMAINS: FOLLOW ALL LABELED PRECAUTIONS. KEROSENE HAS PRODUCED SKIN CANCER IN LABORATORY ANIMAL EXPERIMENTS WHEN REPEATEDLY APPLIED AND NOT WASHED OFF. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. IF CONTACT IS UNAVOIDABLE WEAR PROTECTIVE GEAR. REMOVE SOAKED CLOTHING AND LAUNDRER BEFORE REUSE. AVOID PROLONGED BREATHING OF MIST OR VAPOR.**