MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-115/115-77-5.html for suppliers of this product. Composition/Information on Ingredient

NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

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EFFECTS OF OVEREXPOSURE: NO SIGNIFICANT EFFECTS EXPECTED. ORAL TOXICITY: PRACTICALLY NON-TOXIC. DERMAL TOXICITY: PRACTICALLY NON-TOXIC. INHALATION TOXICITY: NOT APPLICABLE. HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT. EYE IRRITATION: PRACTICALLY NON-IRRITATING. SKIN IRRITATION: PRACTICALLY NON-IRRITATING. SUBCHRONIC

EYE CONTACT: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN. SKIN CONTACT: WASH CONTACT AREAS WITH SOAP AND WATER. HIGH PRESSURE ACCIDENTAL INJECTION THROUGH THE SKIN REQUIRES I MMEDIATE MEDICAL ATTENTION FOR POSSIBLEINCISION, IRRIGATION AND/OR DEBRIDEMENT. INHALATION: NOT EXPECTED TO BE A PROBLEM. INGESTION: NOT EXPECTED TO BE A PROBLEM. HOWEVER, IF GREATER THAN 1/2 LITER (P INT) INGESTED, IMMEDIATELY GIVE 1 TO 2 GLASSES OF WATER AND CALL A

REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. U. S. COAST GUARD REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS THAT COULD REACH ANY WATERWAY INCLUDING 2 INTERMITTENT DRY CREEKS AT (800) 424-8802. SHOVEL UP AND DISPOSE OF AT AN APPROPRIATE WASTE DISPOSAL FACILITY. PREVENT SPILLS FROM ENTERING STORM SEWERS OR DRAINS AND CONTACT WITH

SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE DISPOSED OF AT AN APPROPRIATE GOVERNMENT WASTE

ATTENTION. DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS. STORE AWAY FROM STRONG OXIDIZI NG AGENTS OR COMBUSTIBLE

PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE OR DISPOSAL BY SUPERVISED INCINERATION. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND RECOVERY ACT. PRODUCT IS

HIGH PRESSURE INJECTION UNDER THE SKIN MAY OCCUR DUE TO THE RUPTURE OF PRESSURIZED LINES. ALWAYS SEEK MEDICAL

IF PROLONGED/REPEATED SKIN CONTACT IS LIKELY. OIL IMPERVIOUS SHOULD BE WORN. 3.

IF EYE CONTACT LIKELY, WEAR SAFETY GLASSES WITH SIDE SHIELDS/CHEMICAL GOGGLES.

GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.

Cas: 115-77-5 Code: Т

RTECS: RZ2490000

Code: Τ

Name:

NΡ

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OSHA PEL: 100 PPM Code:

OSHA STEL:

ACGIH TLV: 50 PPM; 9293

ACGIHSTEL:

Ventilation:

Protective Gloves:

Eye Protection:

NONE

N/P

Skin: N/P

N/P

IARC: NO

OSHA: NO

NONE

NOT PROVIDED

First Aid:

Ingestion:

Other Protective Equipment: Equipment NOT PROVIDED

Supplemental Safety and Health:

Health Hazards Data

LD50 (ORAL, RAT) > 2,000 MG/KG

Route Of Entry Inds - Inhalation:

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

TOXICOLOGY: NO ADVERSE EFFECTS.

Signs And Symptions Of Overexposure: NO SIGNIFICANT EFFECTS EXPECTED.

Medical Cond Aggravated By Exposure:

SOIL. FOR PRECAUTIONS, SEE PERSONAL PROTECTION SECTION.

Fire and Explosion Hazard Information

CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG. WATER OR FOAM MAY CAUSE FROTHING.

ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.

USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE.

PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS, SEWERS, OR DRINKING WA TER SUPPLY. FOR FIRES IN

Explanation Of Carcinogenicity:

PHYSICIAN, HOSPITAL EMERGE

Spill Release Procedures:

Neutralizing Agent: NOT RELEVANT

DISPOSAL FACILITY.

Other Precautions: NOT PROVIDED

Flash Point Method:

MATERIAL.

N/P

N/P

N/A

N/A

NONE.

HCC: ۷6

NRC/State LIC No: NOT RELEVANT

Boiling Point: >315.6C, 600.F

Melt/Freeze Pt: >232.2C, 450.F

M.P/F.P Text: DROP POINT

Decomp Temp:

Decomp Text: NOT PROVIDED

Vapor Pres:

Vapor Density:

Spec Gravity:

VOC Pounds/Gallon:

PH: NOT APPLICABLE

VOC Grams/Liter:

AT 40C, CST:28.0

NOT ESTABLISHED

Solubility in Water:

Corrosion Rate: NOT PROVIDED

Stability Indicator:

EXTREME HEAT.

Materials To Avoid: STRONG OXIDIZERS.

Appearance and Odor: RED GREASE, MILD ODOR.

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid:

Hazardous Decomposition Products:

Hazardous Polymerization Indicator:

Conditions To Avoid Polymerization:

Toxicological Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Look for Chemicals

www.lookchem.com

Other Information:N/P

MSDS Transport Information

For R&D use only. Not for drug, household or other uses.

terms and conditions of sale.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

NITROGEN OXIDES. PHOSPHORUS OXIDES. CARBON MONOXIDE.

Evaporation Rate & Reference:

Viscosity:

NEGLIGIBLE

N/P

YES

NO

NONE

Information:N/P

Information:N/P

0.946

Volatile Org Content %:

< 0.1

B.P. Text:

Net Prop WT For Ammo:

Lower Limits:

Upper Limits:

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

Physical/Chemical Properties

Flash Point: =232.2C, 450.F

Flash Point Text: (EST. (OIL CO))

Autoignition Temp:

Autoignition Temp Text:

Waste Disposal Methods:

Handling And Storage Precautions:

Work Hygienic Practices:

LD50LC50Mixture:

Control Measures

Respiratory Protection:

Code: 3

Code: Μ

Code:

Other REC Limits:

PENTAERYTHRITOL % low Wt: 1. Code: M % high Wt: