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

Composition/Information on Ingredient

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N). RESPIRATORY PROTECTION NOT NORMALLY NEEDED. AVOID PROLONGED BREATHING OF DECOMPOSITION PRODUCTS.

Equipment EYE WASH FOUNTAIN &DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA (FP N).

SPILL PROC:EXPER IN HNDLG ENERGETIC MATLS. USE NON-SPARKING TOOLS & AVOID SUBJECTING MATLS TO MECH SHOCK. IF ADDNL MATL MANAGEMENT INFO IS REQD, PLEASE CONT MEI AT (904) 584-2634. NO EXTRA PROT REQD B EYOND THAT LISTED. IN CASE OF FIRE, USENORMAL FIRE-FIGHTING EQUIP. USE NIOSH/MSHA APPRVD SCBA IF SMOKE

ACUTE: INHAL/SKIN/EYE: MINOR IRRITATION. INGEST: NOT A VIABLE ROUTE. CHRONIC: INHAL/SKIN: MINOR IRRITATION. INGEST: NOT A

VIABLE ROUTE. CARCINOGENITY: POSSIBLE WHEN EXPOSED TO DECOMPOSITION PRODUCTS AT HIGH CONCENTRATIONS.

INGEST: CALL MD IMMEDIATELY (FP N). EYES: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER & LOWER EYELIDS. IF IRRITATION DEVELOPS, CALL MD. SKIN: FOR BURNS USE STANDARD FIRST AID

CONSULT FED, STATE & LOC REGS FOR ANY REPORTING/NOTIFICATION REQUIREMENTS. THIS PROD MAY REPRESENT EXPLO HAZ. REMOVE ALL SOURCES OF IGNIT. S SOURCE OF SPILL AS SOON AS POSS & NOTIFY APPROP PERS. MA TL SPILL SHOULD ONLY BE

4 DISPOSAL OF MATERIAL, DECOMPOSITION PRODUCTS & EMPTY CONTAINERS I/A/W ALL LOCAL, STATE & FEDERAL REGULATIONS.

STORE IN A COOL, DRY PLACE AWAY FROM ALL SOURCES OF IGNITION. DO NOT STORE AT TEMPERATURES >65.5C(150F). DO NOT

SHELF LIFE LIMITATIONS: INDEFINITE AT 50-90F & 35% RELATIVE HUMIDITY. PACKAGE ONLY IN DOT APPROVED CONTAINERS. AVOID

WATER SPRAY. APPLY BY MECH MEANS ONLY. FIGHT ALL FIRES FROM REMOTE & EXPLO RESISTANT SITE. EVACUATE ALL NON-ESSNTL

USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.

Cas:

116-15-4 Code: Μ

RTECS: UD0350000

Code: Μ

Name:

NK

OSHA PEL: NK (FP N)

OSHA STEL:

ACGIH TLV: NK (FP N)

ACGIHSTEL:

Ventilation:

Protective Gloves:

Eye Protection:

FROM (ING 11)

LD50LC50Mixture:

YES

Skin: YES

NO

NO

IARC: NO

OSHA: NO

NOT RELEVANT

First Aid:

SEE HEALTH HAZARDS.

NONE KNOWN OR REPORTED.

Spill Release Procedures:

Waste Disposal Methods:

Neutralizing Agent:

Other Precautions:

Flash Point Method:

N/P

N/A

N/A

N/A

PERS.

EXPLOSIVE.

NRC/State LIC No:

Boiling Point:

Melt/Freeze Pt:

M.P/F.P Text:

Decomp Temp:

Decomp Text: >180F,>82C

Vapor Pres:

Vapor Density:

Spec Gravity:

VOC Pounds/Gallon:

VOC Grams/Liter:

NOT APPLICABLE

Corrosion Rate:

Stability Indicator:

Materials To Avoid: NOT APPLICABLE

Solubility in Water: NOT APPLICABLE

Appearance and Odor:

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid:

OPEN FLAMES, TEMPERATURES >82C.

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

COMPOUNDS OF FLUOROCARBONS & CARBON DIOXIDE.

Evaporation Rate & Reference:

6" LONG X 2" DIAMETER MOLDED PLASTIC HOUSING W/REMOVABLE PLASTIC CAP; NO ODOR.

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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

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

applicable to the product with regard to appropriate safety precautions. It does not represent any

WARRANTY

terms and conditions of sale.

Volatile Org Content %:

B.P. Text:

N/K

N/K

N/K

N/A

PH: N/A

Viscosity:

N/A

N/K

YES

NO

NOT RELEVANT

Information:N/P

Information:N/P

Net Prop WT For Ammo:

HCC:

Flash Point:

Flash Point Text: NOT APPLICABLE

Autoignition Temp:

Lower Limits:

Upper Limits:

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

Physical/Chemical Properties

Autoignition Temp Text:

ADDRESSED BY PERS (SUPDAT)

NONE SPECIFIED BY MANUFACTURER.

Handling And Storage Precautions:

SKIN CONTACT W/MATERIALS & DECOMPOSITION PRODUCTS.

Fire and Explosion Hazard Information

SUBJECT TO MECHANICAL SHOCK.

Ingestion:

Control Measures

IMPERVIOUS GLOVES (FP N).

Other Protective Equipment:

Supplemental Safety and Health:

Health Hazards Data

NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation:

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

Explanation Of Carcinogenicity:

Signs And Symptions Of Overexposure:

Medical Cond Aggravated By Exposure:

METHODS. INHAL: REMOVE TO FRESH AIR. CONSULT MD IF IRRITATION OCCURS.

Work Hygienic Practices:

USE ONLY IN OPEN AREAS W/ADEQUATE VENTILATION.

ANSI APPROVED CHEM WORKERS GOGGS (FP N).

NONE SPECIFIED BY MANUFACTURER. 5

Respiratory Protection:

Code:

Code:

Code:

Μ

NΡ Code:

Μ

Other REC Limits:

PROPENE, HEXAFLUORO-; (HEXAFLUOROPROPYLENE)

Click http://www.lookchem.com/cas-116/116-15-4.html for suppliers of this product.