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

Click http://www.lookchem.com/cas-75/75-12-7.html for suppliers of this product.

Composition/Information on Ingredient Cas:

75-12-7

Code:

Name: FORMAMIDE Environmental Wt: Other REC Limits: N **Other REC Limits:** NΡ **OSHA PEL:**

NΡ Code: **OSHA STEL:**

IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE TLV/PEL), A NIOSH APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA

ENGINEERING &/OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOS. MATL MUST BE

Equipment 4 EYE WASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). IMPERVIOUS PROTECTIVE

SPILL PROC: W/FEDERAL, STATE & LOCAL REGS ON REPORTING RELEASES. REFER TO REGULATORY INFO FOR REPORTABLE QUANTITY & OTHER REGULATORY DATA. EXPOSURE GUIDELINES: FORMAMIDE: OSHA-PEL: TWA: 20

IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANES. INHALATION MAY IRRITATE NASAL AND RESPIRATORY PASSAGES. INGESTION CAN CAUSE HEADACHE, DIZZINESS, NAUSEA, LIVER INJURY. FORMAMIDE CAN BE ABSOR BED THROUGH THE SKIN. SPECIAL WARNING TO PREGNANT WORKERS: AVOID ANY EXPOSURE TO FORMAMIDE UNLESS ALL PRECAUTIONS ON MSDS ARE OBSERVED. SMALL

AMOUNTS OF FORMAMIDE, IF REPEATEDLY INHALED, INGESTED OR A BSORBED THROUGH THE SKIN MAY CAUSE FETAL INJURY. 2

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: IMMEDIATELY FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS SPED. INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING IMMEDIATELY AS

DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. REMOVE CONTAMINATED

EXPOSURE/PERSONAL PROTECTION. ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED TO BE FREE FR OM

EXPLOSION OR FIRE HAZARDS. CONTAIN THE RELEASE & ELIMINATE ITS SOURCE, IF THIS CAN BE DONE WITHOUT RISK. TAKE UP &

TREATMENT: MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE, HOWEVER, CONSULTATION WITH A PERMITTED WASTE DISPOSAL SITE (TSD) SHOULD BE ACCOMPLISHED. ALWAYS CONTACT A PERMITTED WAS TE DISPOSER (TSD) TO

KEEP CONTAINER CLOSED. STORE IN A COOL AREA AWAY FROM IGNITION SOURCES. EXPLOSION-PROOF REFRIGERATOR RECOMMENDED

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNNEL. WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER

CONTAINERIZE FOR PROPER DISPOSAL AS DESCRIBED UNDER DISPOSAL. COMPLY (SUPDAT)

ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Fire and Explosion Hazard Information

FOR STORAGE. DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

REGULATIONS A LSO PERMIT OTHER NIOSH RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED

NP Code:

NP Code:

NΡ Code:

ACGIH TLV:

ACGIHSTEL:

Ventilation:

Protective Gloves:

Eye Protection:

Other Protective Equipment:

Work Hygienic Practices:

LD50LC50Mixture:

YES

Skin: YES

YES

NO

IARC: NO

OSHA: NO

N/P

Ingestion:

Supplemental Safety and Health:

Health Hazards Data

LD50: (ORAL, RAT) 5570 MG/KG

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

Explanation Of Carcinogenicity:

SEE HEALTH HAZARDS.

PREGNANCY.

First Aid:

Signs And Symptions Of Overexposure:

Medical Cond Aggravated By Exposure:

CLOTHING AND WASH BEFORE REUSE.

Spill Release Procedures:

Neutralizing Agent:

Other Precautions:

Flash Point Method:

Waste Disposal Methods:

Handling And Storage Precautions:

N/P

N/P 3

COC

Flash Point: =154.4C, 310.F

Flash Point Text:

Autoignition Temp:

Lower Limits:

Upper Limits:

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY.

PRODUCES TOXIC FUMES ON THERMAL DECOMPOSITION.

Physical/Chemical Properties

USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

N/A

N/A

HCC:

NRC/State LIC No:

Boiling Point: =210.C, 410.F

Melt/Freeze Pt: =2.5C, 36.5F

M.P/F.P Text:

Decomp Temp:

Decomp Text:

Vapor Pres: 1 MM HG @ 70C

Vapor Density: 1.6(AIR=1)

Spec Gravity: 1.134 (H*2O=1)

PH: N/P

Viscosity:

>1 (BUAC=1)

MISCIBLE

100

N/P

YES 5

N/P

Information:N/P

Information:N/P

Solubility in Water:

Corrosion Rate:

Stability Indicator:

Materials To Avoid:

Appearance and Odor:

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid: HEAT; PROLONGED STORAGE.

ACIDS, BASES, OXIDIZERS, I*2, PYRIDINE, SO*3.

Hazardous Decomposition Products: CO*X, AMMONIA, NO*X, FORMIC ACID.

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

www.lookchem.com

Other Information:N/P

MSDS Transport Information

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

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

WARRANTY

terms and conditions of sale.

VOC Pounds/Gallon:

VOC Grams/Liter:

Evaporation Rate & Reference:

COLORLESS TO PALE YELLOW LIQUID; AMMONIA-LIKE ODOR.

Volatile Org Content %:

N/P

B.P. Text: DECOMPOSES

Net Prop WT For Ammo:

Autoignition Temp Text:

Route Of Entry Inds - Inhalation:

Control Measures

CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER).

PROTECTIVE GLOVES (BUTYL RUBBER, VITON OR EQUIVALENT).

ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

CLOTHING SHOULD BE WORN TO PREVENT SKIN CONTACT.

WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

PPM, 30 MG/ M3. STEL: 30 PPM, 45 MG/M3. ACGIH-TLV: TWA: 10 PPM; 18 MG/M3; SKIN.

HANDLED OR TRANSFERRED IN APPRVD FUME HOOD OR W/EQUIVALENT VENT.

Respiratory Protection:

Т

RTECS: LQ0525000 Code: Τ