

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-317/3173-72-6.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

3173-72-6

Code:

M

RTECS:

NQ9600000

Code:

M

Name:

1,5-NAPHTHALENE DIISOCYANATE

Other REC Limits:

N/K

OSHA PEL:

N/K

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

N/K

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

A SUPPLIED-AIR RESPIRATOR OR A SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:

LOCAL EXHAUST

Protective Gloves:

CHEMICAL RESISTANT GLOVES.

Eye Protection:

LIQUID CHEMICAL GOGGLES/FULL-FACE SHIELD

Other Protective Equipment:

Equipment SAFETY SHOWERS & EYEWASH STATION

Work Hygienic Practices:

REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health:

SOLUBILITY IN WATER: REACTS SLOWLY W/WATER TO LIBERATE CO₂ GAS AND SOLID POLYUREA. VAPOOR PRESSURE: LESS THAN 10.4 MBAR AT 20 C

Health Hazards Data

LD50/LC50 Mixture:

N/K

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

INHALATION: MUCOUS MEMBRANES IN THE RESPIRATORY TRACT/RUNNING NOSE/SORE THROAT/PRODUCTIVE COUGH/REDUCTION IN LUNG FUNCTION. SKIN: IRRITATION/DISCOLORATION/REDDENING/SWELLING/BLISTERING/SENSITIZATION RESULTING IN DERMATITIS. EYES: IRRITATION/LACHRYMATION. INGESTION: IRRITATION TO STOMACH TISSUES/DIARRHEA/NAUSEA/VOMITING

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms Of Overexposure:

INHALATION: CHEST TIGHTNESS, RESPIRATORY DISTRESS/WHEEZING COUGH/SHORTNESS OF BREATH/ASTHMA ATTACK. SKIN: SCALING/BLISTERING/SKIN SENSITIZATION. INGESTION: CORROSIVE ACTION IN THE MOUTH/DIGESTIVE TRACT/SORE THROAT/ABDOMINAL PAIN.

Medical Cond Aggravated By Exposure:

ASTHMA, OTHER RESPIRATORY DISORDERS (BRONCHITIS, EMPHYSEMA, BRONCHIAL HYPERREACTIVITY), SKIN ALLERGIES, ECZEMA.

First Aid:

EYES: FLUSH W/COPIOUS AMOUNT OF WATER, PREFERABLY LUKEWARM WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS OPEN. SKIN: WASH AFFECTED SKIN THOROUGHLY W/SOAP & WATER. INHALATION: MOVE TO AN AREA FREE FROM FURTHER EXPOSURE. ADMINISTER OXYGEN/ARTIFICIAL RESPIRATION AS NEEDED. INGESTION: DO NOT INDUCE VOMITING. GIVE 20 ML OF MILK/WATER TO DRINK. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:

IF MATERIAL IS MOLTEN, ALLOW TO SOLIDIFY THEN SHOVEL INTO OPEN CONTAINERS. FLAKES CAN BE SWEPT & PLACED INTO OPEN CONTAINER. IF TEMPORARY CONTROL OF ISOCYANATE VAPOR IS REQUIRED, A BLANKET OF PROTEIN FOAM MAY BE PLACED OVER THE SPILL.

Neutralizing Agent:

N/K

Waste Disposal Methods:

WASTE MUST BE DISPOSED OF IN ACCORDANCE W/FEDERAL/STATE/LOCAL ENVIRONMENTAL CONTROL REGULATIONS. INCINERATION IS THE PREFERRED METHOD. EMPTY CONTAINERS MUST BE HANDLED W/CARE DUE TO PRODUCT RESIDUE. DO NOT CONTAMINATE CONTAINERS PRIOR TO DISPOSAL.

Handling And Storage Precautions:

STORE IN TIGHTLY CLOSED CONTAINERS TO PREVENT MOISTURE CONTAMINATION. DO NOT RESEAL IF CONTAMINATION IS SUSPECTED. 2

Other Precautions:

AVOID CONTACT W/SKIN/EYES. DO NOT BREATHE AEROSOLS/VAPORS. THIS MATERIAL CAN PRODUCE ASTHMATIC SENSITIZATION UPON EITHER SINGLE INHALATION EXPOSURE TO A RELATIVELY HIGH CONCENTRATION/UPON REPEATED INHALATION EXPOSURES TO LOWER CONCENTRATION

Fire and Explosion Hazard Information

Flash Point Method:

PMCC

Flash Point:

345 F

Autoignition Temp:

N/A

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER

Fire Fighting Procedures:

FULL EMERGENCY EQUIPMENT W/SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIREFIGHTERS.

Unusual Fire/Explosion Hazard:

AT TEMP. > THAN 400F, NDI CAN POLYMERIZE & DECOMPOSE WHICH CAN CAUSE PRESSURE BUILD-UP IN CLOSED CONTAINERS. EXPLOSIVE RUPURE IS POSSIBLE.

Physical/Chemical Properties

HCC:

NRC/State Lic No:

Net Prop WT For Ammo:

N/A

Boiling Point:

471 F

Melt/Freeze Pt:

261 F

Decomp Temp:

N/A

Decomp Text:

N/K

Vapor Pres:

SEE SUPP

Vapor Density:

7.3

Volatile Org Content %:

N/A

Spec Gravity:

1.45

VOC Pounds/Gallon:

N/K

Viscosity:

N/P

Evaporation Rate & Reference:

N/K

Solubility in Water:

SEE SUPP

Appearance and Odor:

WHITE TO PALE YELLOW

Percent Volatiles by Volume:

NEGLE

Corrosion Rate:

N/K

Conditions To Avoid Polymerization:

N/K

Toxicological Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

Reactivity Data

Medical Cond To Avoid:

N/K

MATERIALS TO AVOID:

WATER, AMINES, STRONG BASES, ALCOHOLS WILL CAUSE SOME CORROSION TO COPPER ALLOYS AND ALUMINUM.

Hazardous Decomposition Products:

BY HIGH HEAT & FIRE, CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HCN, NDI VAPORS OR AEROSOLS.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/K

Decomposition Temp:

N/A

Decomposition Text:

N/K

Lower Limits:

N/K

Upper Limits:

N/K

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