

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-471/4712-38-3.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
4712-38-3
Code:
M

RTECS:

Code:
X

Name:
N-BUTANOL (SARA 313) (VP = 5.9)

Other REC Limits:
NONE RECOMMENDED

OSHA PEL:
50 PPM CEILING
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
50 PPM CEILING
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
WHEN SPRAYING/APPLYING IN ANY CIRCUMSTANCES LIKELY TO PRODUCE AIRBORNE LEVELS OF HAZARDOUS INGREDIENTS IN EXCESS OF TLV, USE AN ORGANIC VAPOR CARTRIDGE OR AIR-SUPPLIED RESPIRATOR.

Ventilation:
GENERAL TO MAINTAIN VAPORS

Protective Gloves:
SOLVENT RESISTANT

Eye Protection:
GOGGLES/FULL FACE SHIELD

Other Protective Equipment:
Equipment PROTECTIVE CLOTHING, SAFETY SHOWER, EYE BATH &WASHING FACILITIES.

Work Hygienic Practices:
NK

Supplemental Safety and Health:
NK

Health Hazards Data

LD50LC50Mixture:
NK

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES 3

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EYES: SEVERE IRRIT, RED, PAIN, CORNEAL CLOUDING/INJURY, DAMAGE/CORROSION. SKIN: IRRIT, SENSITIZATION, ABSORPTION, NAUSEA, VOMIT, HEADACHE, DIZZINESS, RED, BURNING, DRYING, CRACKING, CORROSION, SWELLIN G, BLISTERING, DERMATITIS, INJURY. INHAL: COUGH, CHEST PAIN, THROAT IRRIT, HEADACHE, DIZZINESS, ANESTHETIC, CNS *

Explanation Of Carcinogenicity:
NK

Signs And Symptions Of Overexposure:
NK *LIVER/KIDNEY DAMAGE. RESP TRACT IRRIT, NAUSEA, VOMIT, DIARRHEA, UNCONSCIOUSNESS, DEATH. INGEST: DROWSINESS, DIZZINESS, NAUSEA, MOUTH, THROAT, STOMACH IRRIT, NS DEPRESSION. CHRONIC: ASTHMA.

Medical Cond Aggravated By Exposure:
NK

First Aid:
EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. DON'T USE SOLVENTS. INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NEEDED. OBTAIN MEDICAL AT TENTION IN ALL CASES.

Spill Release Procedures:
PROTECT FROM IGNITION. WEAR AIR SUPPLIED RESPIRATOR FOR UNVENTED SPILL. COVER W/ABSORBENT. ADD DECOMPOSITION SOLUTION, ALLOW TO REACT FOR 10 MINS, CONTAINERIZE. ADD MORE SOLUTION, LOOSELY COVER FOR 4 8 HOURS.

Neutralizing Agent:
5% CONCENTRATED AMMONIA, 2% DETERGENT, 93% WATER.

Waste Disposal Methods:
PACKAGE, STORE, TRANSPORT IAW/FEDERAL, STATE & LOCAL REGULATIONS. FLAMMABLE LIQUID.

Handling And Storage Precautions:
KEEP CONTAINER TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS & FLAME. DON'T STORE >120F.

Other Precautions:
EMPTY DRUMS MAY CONTAIN EXPLOSIVE VAPORS. DON'T CUT, PUNCTURE/WELD ON/NEAR DRUM. AVOID SKIN CONTACT BY USE OF OTHER PROTECTIVE CLOTHING.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
80F102F,39C

Autoignition Temp:

Autoignition Temp Text:
NK

Lower Limits:
NK

Upper Limits:
NK

Extinguishing Media:
NK

Fire Fighting Procedures:
4 NK

Unusual Fire/Explosion Hazard:
VAPORS ACCUMULATE IN UNVENTED/CONFINED AREA/FORM EXPLOSIVE MIXTURES W/AIR/TRAVEL LONG DISTANCES/FLASH BACK. CLOSED CONTAINER MAY EXPLODE W/EXTREME HEAT.

Physical/Chemical Properties

HCC:

NRC/State LIC No:
NK

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
175 TO 430F

Melt/Freeze Pt:

M.P/F.P Text:
NK

Decomp Temp:

Decomp Text:
NK

Vapor Pres:
NK

Vapor Density:
>AIR

Volatile Org Content %:

Spec Gravity:
0.966

VOC Pounds/Gallon:

PH: NK

VOC Grams/Liter:

Viscosity:
NK

Evaporation Rate & Reference:
NA

Solubility in Water:
NK

Appearance and Odor:
LIQUID, SOLVENT ODOR.

Percent Volatiles by Volume:
48.1

Corrosion Rate:
NK 5

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
NK

Materials To Avoid:
WATER, ALCOHOLS, &AMINES.

Hazardous Decomposition Products:
CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN &TRACES OF HCN &ISOCYANATE MONOMER.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NK

Toxicological Information

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



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WARRANTY
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