

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

ACGIH STEL:

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:

GOOGLES/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

LD50/LC50 Mixture:

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, SWELLING, BLISTERING, DERMATITIS, INJURY. INHAL: COUGH, CHEST PAIN, THROAT IRRIT, HEADACHE, DIZZINESS, ANESTHETIC, CNS *

Explanation Of Carcinogenicity:

NK

Signs And Symptoms 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 ATTENTION 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:**

80F/102F, 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:

NK

Boiling Point:

NK

B.P. Text:

175 TO 230F

Melt/Freeze Pt:

NK

M.P/F.P Text:

NK

Decomp Temp:

NK

Decomp Text:

NK

Vapor Pres:

NK

>Air:

NK

Volatile Org Content %:

NK

Spec Gravity:

0.966

VOC Pounds/Gallon:

NK

pH:

NK

VOC Grams/Liter:

NK

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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