

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-202/20290-09-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
20290-09-9
Code:
M
RTECS:
QC7875000
Code:
M
Name:
MORPHINE-3-B-D-GLUCURONIDE

Other REC Limits:
N/K

OSHA PEL:
N/K
Code:
M

OSHA STEL:

Code:

ACGIH TLV:

N/K

Code:
M/NP

ACGIHSTEL:
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

Code:
1 ACGIH STEL:

Control Measures

Respiratory Protection:
CARTRIDGE TYPE RESPIRATOR W/ORGANIC VAPOR CARTRIDGES RECOMMENDED.

Ventilation:
LOCAL EXHAUST: HANDLE IN AN EFFICIENT FUME HOOD/GLOVE BOX. MECHANICAL (GENERAL): NORMAL LABORATORY AIR EXCHANGE.

Protective Gloves:
POLY VINYL CHLORIDE/NEOPRENE OVER LATEX

Eye Protection:

N/K

Other Protective Equipment:
Equipment LAB COAT/TYVEK SUIT.

Work Hygienic Practices:
ONLY EXPERIENCED PERSONNEL SHOULD BE ALLOWED TO HANDLE THIS MATERIAL.

Supplemental Safety and Health:
THE PHYSICAL/CHEMICAL CHARACTERISTIC & FIRE/EXPLOSION DATA INFORMATION IS FOR N,N-DIMETHYLFORMAMIDE. BOILING POINT: 300.2-312.8F. MATERIALS TO AVOID CONT'D: ORGANIC NITRATES, LITHIUM AZIDE, ALKYLALUMI NUMS, ACID CHLORIDES, CHLOROFORMATES, REDUCING AGENTS. 3

Health Hazards Data

LD50LC50Mixture:
N/P

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:
N,N-DIMETHYLFORMAMIDE MAY RESULT IN LIVER & KIDNEY DAMAGE & MAY CAUSE IRRITATION OF SKIN, EYES & MUCOUS MEMBRANES. EYES: CORNEAL DAMAGE. SKIN: DERMATITIS. MORPHINE-3-B-D-GLUCURONIDE ASSUMED TO HAVE TO XIC EFFECTS.

Explanation Of Carcinogenicity:

NONE

Signs And Symptions Of Overexposure:

N,N-DIMETHYLFORMAMIDE-IRRITATION, DIZZINESS, HEADACHE, ABDOMINAL DISTRESS, PAIN, LOSS OF APPETITE, NAUSEA, VOMITING, CONSTIPATION, DIARRHEA, FACIAL FLUSHING, AGITATION, INCREASED BLOOD PRESSURE, RASH, WEAKNESS, INCOORDINATION, HALLUCINATIONS.

Medical Cond Aggravated By Exposure:

N/K

First Aid:

INGESTION: GIVE LARGE QUANTITIES OF LIQUID. SKIN: WASH AREAS W/LARGE AMOUNTS OF WATER. INHALATION: IF BREATHING HAS SPED, GIVE CPR IF NEEDED. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:

REMOVE SOURCES OF IGNITION. USE ABSORBENT PAPER TO PICK UP MATERIAL. SOAK ABSORBENT PAPER IN AN APPROPRIATE SOLVENT SUCH AS TOLUENE/ALCOHOL TO PICK UP REMAINING TRACES.

Neutralizing Agent:

N/K

Waste Disposal Methods:

WASTE MATERIALS SHOULD BE DISPOSED OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. 2

Handling And Storage Precautions:

STORE AT 32F. PROTECT FROM LIGHT.

Other Precautions:

AVOID INHALATION OF VAPORS.

Fire and Explosion Hazard Information

Flash Point Method:

CC

Flash Point:

Flash Point Text:

153F

Autoignition Temp:

Autoignition Temp Text:

N/A

Lower Limits:

2.2

Upper Limits:

15.2

Extinguishing Media:

DRY CHEMICAL, CO2

Fire Fighting Procedures:

N/K

Unusual Fire/Explosion Hazard:

N/K

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
(SEE SUPP)

Melt/Freeze Pt:

M.P/F.P Text:

-77.8F

Decomp Temp:

Decomp Text:

N/K

Vapor Pres:

3.7

Vapor Density:

2.51

Volatile Org Content %:

Spec Gravity:

0.9487

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:

N/P

Evaporation Rate & Reference:

(BU AC = 1): 0.17

Solubility in Water:

COMPLETE

Appearance and Odor:

CLEAR COLORLESS LIQUID W/FAINT AMINE ODOR

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

HEAT, SPARKS/OTHER SOURCES OF IGNITION, AIR, LIGHT.

Materials To Avoid:

OXIDIZING MATERIALS, BROMINE, POTASSIUM PERMANGANATE, CHLORINE, HALOGENATED, HYDROCARBONS, INORGANIC NITRATES. (SEE SUPP)

Hazardous Decomposition Products:

CO, CO2, NITROGEN OXIDES.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/K

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