

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-621/6211-15-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

6211-15-0

Code:

M

RTECS:

QC8760000

Code:

M

Name:

MORPHINE (SULFATE, PENTAHYDRATE)

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

NOT ESTABLISHED

Code:

M N/P

ACGIH STEL:

EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

Code:

1 ACGIH STEL:

Control Measures

Respiratory Protection:

NONE SHOULD BE NEEDED.

Ventilation:

ADEQUATE

Protective Gloves:

LATEX RECOMMENDED

Eye Protection:

LAB GRADE GOGGLES RECOMMENDED

Other Protective Equipment:

Equipment EYE WASH STATION, LAB COAT

Work Hygienic Practices:

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health:

N/P

Health Hazards Data

LD50LC50Mixture:

LD50 (ORAL, RAT) IS 461-905 MG/KG.

Route Of Entry Inds - Inhalation:

NO

Skin:

NO

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

TARGET ORGANS: NERVOUS SYSTEM & REPRODUCTIVE. ACUTE- ORAL: LETHAL DOSE IN MAN IS 120-250 MG & 60-100 MG IS TOXIC. MAY CAUSE VOMITING, ALTERED RESPIRATION, COMA & DEATH. CAN BE ABSORBED VIA NASAL & RESPIRATORY MUCOSA IF INHALED. MAY CAUSE EYE & SKIN IRRITATION. MAY CAUSE BLURRED VISION. CHRONIC- PRODUCES DEPENDENCY.

Explanation Of Carcinogenicity:

MUTAGENIC.

Signs And Symptoms Of Overexposure:

ALTERED RESPIRATION, PINPOINT PUPILS, NAUSEA, VOMITING, CONSTIPATION, URINE RETENTION, WEAK PULSE, MUSCLE TWITCHING/SPASM, CYANOSIS, COMA, PARALYSIS, IRRITATION, BLURRED VISION, ITCHING, DEATH

Medical Cond Aggravated By Exposure:

UNKNOWN

First Aid:

GET MEDICAL ATTENTION IF SYMPTOMS DEVELOP. EYES/SKIN: FLUSH WITH PLENTY OF WATER. INHALATION: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. INGESTION: MAINTAIN RESPIRATION AND SEEK MEDICAL ATTENTION IMMEDIATELY. ADMINISTRATION OF A SPECIFIC NARCOTIC ANTAGONIST AND OBSERVATION FOR 24 TO 48 HOURS ARE ADVISED.

Spill Release Procedures:

ABSORB WITH SUITABLE MATERIAL. FLUSH WITH WATER.

Neutralizing Agent:

NOT RELEVANT

Waste Disposal Methods:

DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DISPOSE OF SOLUTION IN SEWER OR BURY IN LANDFILL.

Handling And Storage Precautions:

STORE IN COOL PLACE AWAY FROM LIGHT AND INCOMPATIBLE MATERIALS.

Other Precautions:

WASH AFTER HANDLING. AVOID EYE CONTACT. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

NONE

Autoignition Temp:

N/A

Autoignition Temp Text:

N/A

Lower Limits:

N/R

Upper Limits:

N/R

Extinguishing Media:

WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:

WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IF NEEDED.

Unusual Fire/Explosion Hazard:

NONE

Physical/Chemical Properties

HCC:

C3

NRC/State Lic No:

NOT RELEVANT

Net Prop WT For Ammo:

N/P

Boiling Point:

212F/100C

Melt/Freeze Pt:

N/A

M.P/F.P/O.C Text:

32.0F/0.0C

Decomp Temp:

N/A

Decomp Text:

UNKNOWN

Vapor Pres:

UNKNOWN

Vapor Density:

UNKNOWN

Volatile Org Content %:

N/A

Spec Gravity:

1

VOC Pounds/Gallon:

N/A

pH:

2.5-6

VOC Grams/Liter:

N/A

Viscosity:

SAME AS WATER

Evaporation Rate & Reference:

UNKNOWN

Solubility in Water:

SOLUBLE

Appearance and Odor:

CLEAR LIQUID

Percent Volatiles by Volume:

N/K

Corrosion Rate:

UNKNOWN

Extinguishing Media:

WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:

WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IF NEEDED.

Unusual Fire/Explosion Hazard:

NONE

Reactivity Data

Stability Indicator:

HIGH TEMPERATURES, EXPOSURE TO LIGHT

Materials To Avoid:

ALKALIES, TANNIC ACID, IODIC ACID, K PERMANGANATE, BORAX, CHLORATES, FERRIC CHLORIDE, IODIDES, LEAD ACETATE, MERCURY

Hazardous Decomposition Products:

OXIDES OF NITROGEN

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT RELEVANT

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

Physical/Chemical Properties

Information:

N/P

Reactivity Data

Information:

N/P

Toxicological Information

Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Information:

N/P

Other Information

Information:

N/P