

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-235/23541-50-6.html> for suppliers of this product.

## Composition/Information on Ingredient

### Cas:

23541-50-6

### Code:

M

### RTECS:

HB7878000

### Code:

M

### Name:

DAUNORUBICIN HCL (CERUBINDINE)

### Other REC Limits:

NONE RECOMMENDED

### OSHA PEL:

2 NOT ESTABLISHED

### Code:

M

### OSHA STEL:

### Code:

### ACGIH TLV:

NOT ESTABLISHED

### Code:

M

### ACGIH STEL:

N/P

### Code:

## Control Measures

### Respiratory Protection:

4 RECOMMEND RESPIRATORS BASED ON INFO FOUND IN PHYS DATA, TOXICITY, HEALTH EFFECTS, SPEC RESP SELECTED MUST BE BASED ON CONTAM LEVELS FOUND IN WORKPLACE, MUST BE BASED ON SPEC OPERATION, NOT EXCEED WORK LIMITS OF RESP, JOINTLY APPROV NIOSH/MSHA.

### Ventilation:

PROVIDE CLASS II VERTICAL FLOWS CONTAINMENT HOOD (BIO SAF CABINET). MAX PORT MAY BE OBTAIN BY USE OF PROCESS ENCLOSURE SYS.

### Protective Gloves:

SURGICAL LATEX GLOVES RECOMMENDED

### Eye Protection:

SPLASH-PROOF, DUST RESIST SAF GOGG, FCSHIE

### Other Protective Equipment:

Equipment MUST WEAR APPROP PROT IMPERV CLOTH/EQPMT-PREVENT ANY POSSIBILITY OF SKIN CONTACT W/SUBSTANCE. EYEWASH FOUNTAIN IN WORKPLC

### Work Hygienic Practices:

CHANGE GLOVES REG/IMMED IF TORN/PUNCTURE. DBL LAYER GLOVES USED IF NOT INTERFERE W/TECHNIQUE. ALSO USE FOR CLEANUP SPILL.

### Supplemental Safety and Health:

1ST AID: INGEST: VOMIT OCCUR KEEP HEAD LOWER THAN HIPS-PREVENT ASPIRATION. TREAT SYMPT/SUPPORT. GET MED ATTN IF NEEDED. SPILL: CNTRL PADS/PILLOWS. COVER SOLIDS W/DAMP CLOTH/TOWELS. DONT GENERATE AEROSOLS. CLEAN ALL CONTAM SURF WELL W/DETERGNT SOLN. RESTRICT ACCESS TO AREA. FOLLOW APPROP DISPO RECOMMENDATION FRO CONTAM MATLS.

## Health Hazards Data

### LD50/LC50 Mixture:

LETHAL DOSE IN RATS, ORAL 336MG/KG.

### Route Of Entry Inds - Inhalation:

YES

### Skin:

YES

### Ingestion:

YES

### Carcinogenicity Inds - NTP:

NO

### IARC:

YES

### OSHA:

NO

### Health Hazards Acute And Chronic:

LOC EFFECTS: IRRIT-SKIN/TOXIC BY INGEST, INHAL: IF SUFFI QUANT INHAL SYSTEMIC POISONING MAY OCCUR. SKIN: IRRIT, MAY CAUSE VESICATION. IF SUFFI QUANT ABSORBED SYSTEMIC POISONING MAY OCCUR. CHRONIC: REP/PROL CONTACT W/IRRIT MAY CAUSE DERM/EYE: NO DATA AVAIL. INGEST: LETHAL DOSE IN RATS = 336MG/KG.

### Explanation Of Carcinogenicity:

PER MSDS: ANIMAL SUFFICIENT EVIDENCE (IARC GROUP 2B).

### Signs And Symptoms Of Overexposure:

CONTACT DERM. SKIN IRRIT. SYSTEMIC POISONING, VESICATION.

### Medical Cond Aggravated By Exposure:

PERSONS W/PRE-EXISTING HEART DISEASE OR HEPATIC OR RENAL FUNCTION IMPAIRMENT. TARGET ORGANS: NO DATA AVAILABLE.

### First Aid:

INHAL: REMOVE FROM EXPO TO FRESH AIR IMMED. PERFORM ART RESP IF NECESSARY. KEEP WARM/@REST. TREAT SYMPT/SUPPORT. GET MED ATTN IMMED. SKIN: REMOVE CONTAM CLOTH/SHOE IMMED. WASH W/SOAP/MILD DETERGENT/LG AMTS OF H2O TIL NO EVIDENCE OF CHEM REMAINS (@LEAST 15-20MINS). GET MED ATTN IMMED. EYE: WASH IMMED W/LG AMTS OF H2O/NORMAL SALINE, LIFT EYELIDS, TIL NO EVIDENCE OF CHEM (@LEAST 15-20MINS). GET MED ATTN IMMED. (SUPP)

### Spill Release Procedures:

3 SM( $<5$ ML/5GM) SHOULD BE CLEAN UP IMMED BY PERSON WEARING APPROP PROT CLOTH. WIPE LIQ W/ABSORBENT GAUZE PADS; SOLIDS SHOULD BE WIPE W/WET ABSORBENT GAUZE. CLEAN AREA WELL W/DETERGENT SOLN. LG LIMIT SPREAD BY GENTLY COVERING W/ABSORBENT SHEETS/SPILL (SUPPL)

### Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

### Waste Disposal Methods:

OBERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS WHEN STORING/DISPO OF THIS SUBSTANCE.

### Handling And Storage Precautions:

OBERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS WHEN STORING/DISPO OF THIS SUBSTANCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

### Other Precautions:

NONE SPECIFIED BY MANUFACTURER.

## Fire and Explosion Hazard Information

### Flash Point Method:

N/P

### Flash Point:

### Flash Point Text:

NP

### Autoignition Temp:

NA

### Autoignition Temp Text:

NA

### Lower Limits:

NP

### Upper Limits:

NP

### Extinguishing Media:

DRY CHEMICAL, CO2, WATER SPRAY, REGULAR FOAM. LG FIRES-USE WATER SPRAY, FOG OR REGULAR FOAM.

### Fire Fighting Procedures:

MOVE CNTNR FROM FIRE AREA IF YOU CAN DO IT W/O RISK. EXTINGUISH USING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING VAPORS/DUSTS. KEE UPWIND.

### Unusual Fire/Explosion Hazard:

NO DATA AVAIL. INGEST: LETHAL DOSE IN RATS = 336MG/KG.

## Physical/Chemical Properties

### HCC:

N1

### NRC/State IC No:

N/R

### Net Prop WT For Ammo:

NO

### Boiling Point:

NA

### B.P. Text:

NA

### Melt/Freeze Pt:

NA

### N/P/V/I/P Text:

NA

### Decomp Temp:

NA

### Decomp Text:

NA

### Vapor Pres:

NA

### Vapor Density:

NA

### Volatile Org Content %:

NA

### Spec Gravity:

NA

### VOC Pounds/Gallon:

NA

### PH: NP

### VOC Grams/Liter:

NA

### Viscosity:

NP

### Evaporation Rate & Reference:

NA

### Solubility in Water:

NA/AVAI

### Appearance and Odor:

REDDISH POWDER

### Percent Volatiles by Volume:

NP

### Corrosion Rate:

NP

## Reactivity Data

### Stability Indicator:

YES

### Stability Condition To Avoid:

PREVENT DISPERSION OF DUST IN AIR. DONT ALLOW SPILL MATL TO CONTAMINATE WATER SOURCES. MAY BURN BUT DOESN'T IGN READILY.

### Materials To Avoid:

STRONG OXIDIZERS: FIRE EXPO HAZ.

### Hazardous Decomposition Products:

HAZARDOUS DECOMPOSITION MAY RELEASE TOXIC OR HAZARDOUS GASES.

### Hazardous Polymerization Indicator:

NO

### Conditions To Avoid Polymerization:

NOT APPLICABLE

## 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

### Other Information: