

Nimustine hydrochloride: sc-202732



The Power to Question

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nimustine hydrochloride
SYNONYMS: 1-(4-Amino-2-methyl-5-pyrimidinyl)-methyl-3-(2-chloroethyl)-3-nitrosourea • HCl; ACNU • HCl;
CATALOG CODE: sc-202732
SUPPLIER: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

EMERGENCY:

ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	CAS #	EC #	Annex I Index #
$C_9H_{13}ClN_6O_2 \cdot HCl$	55661-38-6; 52208-23-8	N/A	N/A

SECTION 3: HAZARDS IDENTIFICATION

ACUTE HEALTH EFFECTS: TOXIC by inhalation, ingestion, or skin absorption. MAY BE TERATOGENIC.

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Check for and remove any contact lenses. Seek medical attention if symptoms appear.
SKIN: Wash immediately with water for 15 minutes. Remove contaminated clothing. Seek medical attention if symptoms appear.
INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms appear. Provide MSDS and label information if possible.
INHALATION: Take into fresh air. If breathing is difficult, administer oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, water foam, polymer foam, carbon dioxide, dry chemicals.
SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, watch out for the formation of toxic smoke and gases. Wear self-contained respiration equipment. Prevent contact with skin and eyes.
UNUSUAL FIRE AND EXPLOSION HAZARDS: May be combustible at high temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Evacuate area. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
ACCIDENTAL RELEASE MEASURES: Avoid formation of dust, sweep up spill and place in sealed container and hold for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep locked up. Keep away from heat, sources of ignition and incompatibles such as oxidizing agents. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Avoid contact with skin and eyes; do not breathe dust. Avoid prolonged or repeated exposure. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid eating, drinking and storage of food in the work room. Store tightly sealed at -20°C. Protect from moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Use only in chemical fume hood. Safety shower and eye bath.
VENTILATION:	Government approved respirator.
EYE PROTECTION:	Chemical safety goggles.
SKIN PROTECTION:	Compatible gloves, protective coat or clothing.
SECTION 8 NOTES:	Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White to light yellow solid.
ODOR:	N/A
pH AS SUPPLIED:	N/A
BOILING POINT:	N/A
MELTING POINT:	N/A
FREEZING POINT:	N/A
VAPOR PRESSURE (mmHg):	N/A
VAPOR DENSITY (AIR = 1):	N/A
SPECIFIC GRAVITY (H₂O = 1):	N/A
EVAPORATION RATE:	N/A
BASIS (=1):	N/A
SOLUBILITY:	Soluble in methanol or water; slightly soluble in 100% ethanol or n-butanol.
MOLECULAR WEIGHT:	272.7 . 35.4

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable. Avoid strong oxidizing agents.
HAZARDOUS DECOMPOSITION:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS # :	N/A
TOXICOLOGICAL INFORMATION:	TOXIC. Harmful by inhalation, ingestion, or skin absorption. May be irritant by inhalation, ingestion, or skin absorption. Exposure may cause hypermotility, diarrhea, somnolence (general depressed activity), weight loss or decreased weight gain. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
LD50:	Rat [Oral]: 113 mg/kg Rat [Intraperitoneal]: 52.7 mg/kg Rat [Subcutaneous]: 60.8 mg/kg Rat [Intravenous]: 15 mg/kg Mouse [Oral]: 83 mg/kg Mouse [Intraperitoneal]: 49.3 mg/kg Mouse [Subcutaneous]: 72.8 mg/kg Mouse [Intravenous]: 59 mg/kg
CHRONIC EXPOSURE:	Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
CHRONIC EXPOSURE-CARCINOGEN:	Not available.
CHRONIC EXPOSURE-MUTAGEN:	Not available.
CHRONIC EXPOSURE-TERATOGEN:	May cause congenital malformation in the fetus.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	N/A
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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATIONS:

LAND – ROAD/RAILWAY: ADR/RID: Not available.
SEA: IMDG: Not available.
AIR: IATA-DGR: Not available.
SPECIAL PROVISIONS FOR TRANSPORT: N/A

SECTION 15: REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES:

SYMBOL OF DANGER: T, toxic
R-PHRASES: R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
S-PHRASES: S7 - Keep container tightly closed.
S22 - Do not breathe dust.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

U.S. FEDERAL REGULATIONS: Not available.

HCS CLASSIFICATION: Not available.

WHMIS (CANADA): This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

7/6/2010