



Section 1. Product and Company Identification

Product Name Nimustine Hydrochloride
Product ID N3452
Chemical Name (Synonyms) ACNU; Nidran
Supplier LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com
Emergency Phone # 1-800-424-9300

Section 2. Hazards Identification

GHS Classification Acute toxicity, Oral (Category 3), H301

GHS Label elements including precautionary statements

Pictogram



Signal word Danger

Hazard and precautionary statements

Hazard statement

H301 - Toxic if swallowed.

Precautionary statement

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 0
Reactivity hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.

Ingestion: Acute toxicity. Toxic if swallowed.

Section 3. Composition/Information on Ingredients

Substances

Formula $\text{C}_9\text{H}_{13}\text{ClN}_6\text{O}_2 \cdot \text{HCl}$
CAS No. 55661-38-6

Formula Wt. 309.16
EC No.

Section 4. First Aid Measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact Flush eyes with water as a precaution.

Skin Contact Wash with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Contact a physician.

Section 5. Firefighting Measures

Flash Point Not available.

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting Procedures Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

Unusual Fire Hazards Not available.

Section 6. Accidental Release Measures

Personal Precautions Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 4°C

Hazardous Decomposition Products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

Other Remarks Decomposes slowly in humid air.

Section 8. Exposure Controls/Personal Protection

Personal protective equipment EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

Eye protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

| | | | |
|---|--|---------------------------------|---|
| Physical State | Solid. | Color | White or slightly yellow crystalline powder |
| Boiling Point | Not available. | Volatility | Not available. |
| Melting Point | 170°C-171°C | Density | Not available. |
| Solubility | Soluble in methanol and n-butanol. Soluble in water (100 mM) and DMSO (75 mM). (Practically insoluble in ethyl acetate, ether, chloroform and benzene. | pH | Not available. |
| Flash Point | Not available. | Ignition temperature | Not available. |
| Lower explosion limit | Not available. | Autoignition temperature | Not available. |
| Upper explosion limit | Not available. | Vapor pressure | Not available. |
| Water solubility | Soluble in water (100 mM). | Odor | Not available. |
| Partition coefficient: n-octanol/water | Not available. | Odor Threshold | Not available. |
| Relative vapor density | Not available. | Evaporation rate | Not available. |

Section 10. Stability and Reactivity

| | |
|---|---|
| Stability | Stable under recommended storage conditions. |
| Materials To Avoid | Strong oxidizing agents. |
| Hazardous Decomposition Products | Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas. |

Possibility of hazardous reactions Not available.

Conditions to avoid Not available.

Section 11. Toxicological Information

Oral LD50 Oral - rat - 113 mg/kg Remarks:Behavioral: Somnolence (general depressed activity). Diarrhoea Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Skin corrosion/irritation Not available.

Inhalation LC50 Not available.

Serious eye damage/irritation Not available.

Dermal LD50 Not available.

Respiratory or skin sensitization Not available.

Other information on acute toxicity Not available.

Germ cell mutagenicity Not available.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.

Synergistic effects Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information RTECS: YR8450000

Teratogenicity Not available.

Signs and symptoms of exposure

Potential Health Effects Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation. Ingestion: Acute toxicity. Toxic if swallowed.

Carcinogenicity **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/ not

conducted.

Persistence and degradability Not available.

Other adverse effects Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal Dispose of material according to all federal, state, and local regulations.
Offer material to a licensed, professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Dispose of as unused product.

Section 14. Transport Information

DOT (US) UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (Nimustine hydrochloride)
Poison Inhalation Hazard: No

IATA UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (Nimustine hydrochloride)

IMDG UN number: 2811 Class: 6.1 Packing group: III EMS #: F-A, S-A
Proper shipping name: Toxic solid, organic, n.o.s. (Nimustine hydrochloride)

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard.

Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Nimustine hydrochloride CAS #: 52208-23-8 Revision Date:

New Jersey Right To Know Components Nimustine hydrochloride CAS #: 52208-23-8 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 5/22/2019

For emergencies in the USA, call
CHEMTREC 800-424-9300