

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Nickel sulfamate hydrate
Product Code: N05105
Supplier: Pfaltz & Bauer, Inc.
172 E. Aurora Street
Waterbury, CT 06708 USA
Phone: 203-574-0075
FAX: 203-574-3181
Emergency Phone: INFOTRAC, US: 1-800-535-5053
INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Environmentally hazardous, Irritant, Respiratory sensitizer, Toxic
Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion and skin absorption, toxic by inhalation.
Chronic Health Hazard: Carcinogen, Mutagen, Target organ effect, Teratogen
HMIS Rating: H: 3 F: 0 P: 1
NFPA Rating: H: 3 F: 0 R: 1

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 4), H312
Acute toxicity, inhalation (Category 3), H331
Acute toxicity, oral (Category 4), H302
Carcinogenicity (Category 1A), H350
Germ cell mutagenicity (Category 2), H341
Hazardous to the aquatic environment, chronic toxicity (Category 1), H410
Reproductive toxicity (Category 1A), H360
Sensitization, respiratory (Category 1), H334
Serious eye damage/eye irritation (Category 2A), H319
Skin corrosion/irritation (Category 2), H315
Specific target organ toxicity, repeated exposure (Category 1), H372

Pictogram:



Signal Word: Danger

Hazard Statement(s): H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s): P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P284 Wear respiratory protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Nickel sulfamate hydrate

| | |
|-----------------------------------|-------------------------------|
| <u>Synonyms:</u> | Nickel(II) sulfamate hydrate |
| <u>CAS Number:</u> | 13770-89-3 |
| <u>MDL Number:</u> | MFCD00137261 |
| <u>EINECS Number:</u> | 237-396-1 |
| <u>Beilstein Registry Number:</u> | Not Available |
| <u>Molecular Formula:</u> | <chem>Ni(SO3NH2)2.xH2O</chem> |
| <u>Molecular Weight:</u> | 250.86 |
| <u>Content:</u> | As specified in product name. |

SECTION 4: FIRST AID MEASURES

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|----------------------|--|
| <u>Eye Contact:</u> | Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention. |
| <u>Skin Contact:</u> | Wash skin with soap and water. If irritation persists, seek medical attention. |
| <u>Ingestion:</u> | Do not induce vomiting. Seek medical attention. |
| <u>Inhalation:</u> | Move to a fresh air environment. Contact a physician if breathing becomes difficult. |

SECTION 5: FIRE FIGHTING MEASURES

| | |
|--|---|
| <u>Flash Point (°C):</u> | Not Available |
| <u>Explosion Limits:</u> | Not Available |
| <u>Auto Ignition Temperature (°C):</u> | Not Available |
| <u>Extinguishing Media:</u> | Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray |
| <u>Protective Equipment:</u> | Wear self-contained respirator and fully protective impervious suit. |
| <u>Specific Hazards:</u> | May emit hazardous fumes under fire conditions. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed.
Keep unprotected persons away.

Environmental Protection:

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE**Handling and Storage:**

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.
Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities:

Not Available

Storage Temperature (°C):

15 to 30

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls:**

Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection:

Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Skin Protection:

Wear impervious gloves and protective clothing.

Respiratory Protection:

Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits:

| | <u>Country</u> | <u>Source</u> | <u>Type</u> | <u>Value</u> |
|--|----------------|---------------|-------------|---------------|
| | USA | ACGIH | TWA | Not Available |
| | USA | OSHA | STEL | Not Available |
| | USA | OSHA | PEL | Not Available |

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**Appearance:**

Blue crystalline solid

Odor:

Not Available

Odor Threshold:

Not Available

Flash Point (°C): Not Available

Auto Ignition Temperature (°C): Not Available

UEL % by Volume: Not Available

LEL % by Volume: Not Available

Melting Point (°C): Not Available

Boiling Point (°C): Not Available

Evaporation Rate: Not Available

pH Value: Not Available

Density (g/cm³): 1.55

Refractive Index (n²⁰D): Not Available

Viscosity: Not Available

Solubility in Water: Soluble

Solubility in Other: Not Available

Vapor Pressure (mmHg): Not Available

Vapor Density (Air=1): Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Alkali metals, Bases

Reactivity: Product may react with incompatible materials to release other hazardous substances.

Conditions to Avoid: Heat, flame, sparks, other ignition sources.

Hazardous Decomposition Products: Nickel oxides, Nitrogen oxides, Sulfur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: QR9275000

Target Organs: Not Available

Toxicity Data: Not Available

Carcinogenicity: National Toxicology Program (NTP) listed:
Not Available

International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.

DOT UN Number: UN3077

DOT Hazard Class: Class 9

DOT Packing Group: PGIII

IMDG Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.

IMDG UN Number: UN3077

IMDG Hazard Class: Class 9

IMDG Packing Group: PGIII

Marine Pollutant: Yes

IATA Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.

IATA UN Number: UN3077

IATA Hazard Class: Class 9

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 237-396-1

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

Canada

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

SECTION 16: OTHER INFORMATION

Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.