Conforms to US OSHA Hazard Communication 29CFR1910.1200

# SAFETY DATA SHEET

Agilent Technologies

NaBH4

## Section 1. Identification

### 1.1 Product identifier

**Product name** : NaBH4

**Part no.** : 8210029100

**Validation date** : 5/26/2025

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Reagents and Standards for Analytical Chemistry Laboratory Use
500G, 1/pk

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

| | |
|---|---|
| H260 | SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 1 |
| H301 | ACUTE TOXICITY (oral) - Category 3 |
| H311 | ACUTE TOXICITY (dermal) - Category 3 |
| H314 | SKIN CORROSION - Category 1C |
| H318 | SERIOUS EYE DAMAGE - Category 1 |
| H360 | TOXIC TO REPRODUCTION - Category 1B |

### 2.2 GHS label elements

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : H260 - In contact with water releases flammable gases which may ignite spontaneously.
H301 + H311 - Toxic if swallowed or in contact with skin.
H314 - Causes severe skin burns and eye damage.
H360 - May damage fertility or the unborn child. (Male) (oral)

### Precautionary statements

**Prevention** : P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P231 + P232 - Handle and store contents under inert gas. Protect from moisture.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

## Section 2. Hazards identification

**Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P335 + P334 - Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : P402 + P404 - Store in a dry place. Store in a closed container.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Keep container tightly closed. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Do not breathe dust.

### 2.3 Other hazards

**Hazards not otherwise classified** : Causes respiratory tract burns. Causes digestive tract burns.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Substance

| Ingredient name | % | Identifiers |
|---|---|---|
| Sodium tetrahydroborate | 100 | CAS: 16940-66-2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Brush off loose particles from skin. Wash with plenty of soap and water. Immerse in cool water or wrap in wet bandages. Remove contaminated clothing and shoes. Gloves should be worn when removing clothing to prevent additional exposure. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Dispose of contaminated clothing and shoes.

# Section 4. First aid measures

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## 4.2 Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Corrosive to the respiratory system. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** : Causes severe burns. Toxic in contact with skin.

**Ingestion** : Toxic if swallowed. May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Gloves should be worn when removing clothing to prevent additional exposure.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

## 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical powder.

**Unsuitable extinguishing media** : Do not use water or foam.

## 5.2 Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** : Runoff to sewer may create fire or explosion hazard. In contact with water releases flammable gases which may ignite spontaneously.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
metal oxide/oxides

## 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** : Evolves toxic and flammable gas on contact with acids.

# Section 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Keep away from water. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** : Move containers from spill area. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues, unless the quantity remaining is very small. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

## 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Handle under inert gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat,

# Section 7. Handling and storage

sparks, open flame or any other ignition source. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep away from water or moist air. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

**Recommendations** : Industrial applications, Professional applications.

**Industrial sector specific solutions** : Not available.

# Section 8. Exposure controls/personal protection

## 8.1 Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Sodium tetrahydroborate | None. |

### Biological exposure indices

No exposure indices known.

## 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Engineering controls may be required to control the primary or secondary risks associated with this product. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

**Physical state** : Solid. [Crystalline powder.]

**Color** : White.

**Odor** : Odorless.

**Odor threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : 400°C (752°F) [EU A.1]

**Boiling point or initial boiling point and boiling range** : >400°C (>752°F) [EU A.2]

**Flash point** : Not applicable.

**Evaporation rate** : Not available.

**Flammability** : Evolves toxic and flammable gas on contact with acids.

**Lower and upper explosion limit/flammability limit** : Not applicable.

**Vapor pressure** : <0.000000053 kPa (<0.0000004 mm Hg) [EU A.4]

**Relative vapor density** : Not applicable.

**Relative density** : 1.074

**Density** : 1.074 g/cm³ [20°C (68°F)] [OECD 109]

**Solubility(ies)** :

| Media | Result |
|---|---|
| water | Soluble |

**Solubility in water** : 550 g/l

**Partition coefficient: n-octanol/water** : -1.09 [EU A.8]

# Section 9. Physical and chemical properties and safety characteristics

**Auto-ignition temperature** : >400°C (>752°F) [EU A.16]

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): Not available.

**Particle characteristics**

**Median particle size** : Not available.

# Section 10. Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions may include the following:
contact with water
Reactions may include the following:
spontaneous flammability
liberation of flammable gas

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials:
water
Reactive or incompatible with the following materials: oxidizing materials, metals and acids.

**10.6 Hazardous decomposition products** : In contact with water releases flammable gases which may ignite spontaneously.

# Section 11. Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result | |
|---|---|---|
| Sodium tetrahydroborate | Rat - Oral - LD50 | 162 mg/kg |
| | Rabbit - Dermal - LD50 | 230 mg/kg |

**Conclusion/Summary [Product]** : Not available.

**Skin corrosion/irritation**

**Conclusion/Summary [Product]** : Not available.

**Serious eye damage/eye irritation**

**Conclusion/Summary [Product]** : Not available.

**Respiratory corrosion/irritation**

**Conclusion/Summary [Product]** : Not available.

# Section 11. Toxicological information

## Respiratory or skin sensitization

**Skin**

**Conclusion/Summary [Product]** : Not available.

**Respiratory**

**Conclusion/Summary [Product]** : Not available.

## Germ cell mutagenicity

**Conclusion/Summary [Product]** : Not available.

## Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

## Reproductive toxicity

**Conclusion/Summary [Product]** : Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

## Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Corrosive to the respiratory system. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** : Causes severe burns. Toxic in contact with skin.

**Ingestion** : Toxic if swallowed. May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

# Section 11. Toxicological information

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

## Potential chronic health effects

**Conclusion/Summary [Product]** : Not available.

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : May damage fertility or the unborn child. (Male) (oral)

## Numerical measures of toxicity

### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Sodium tetrahydroborate | 162 | 230 | N/A | N/A | N/A |

# Section 12. Ecological information

## 12.1 Toxicity

**Conclusion/Summary [Product]** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary [Product]** : Not available.

# Section 12. Ecological information

## 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Sodium tetrahydroborate | -1.09 | - | Low |

## 12.4 Mobility in soil

**Soil/Water partition coefficient** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

## 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

# Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IMDG | IATA |
|---|---|---|---|---|---|
| UN number | UN1426 | UN1426 | UN1426 | UN1426 | UN1426 |
| UN proper shipping name | Sodium borohydride | SODIUM BOROHYDRIDE | BOROHIDRURO DE SODIO | SODIUM BOROHYDRIDE | Sodium borohydride |
| Transport hazard class(es) | 4.3   | 4.3  | 4.3  | 4.3  | 4.3  |
| Packing group | I | I | I | I | I |
| Environmental hazards | No. | No. | No. | No. | No. |

## Additional information

# Section 14. Transport information

**DOT Classification** : **Limited quantity** No.
**Packaging instruction** Exceptions: None. Non-bulk: 211. Bulk: 242.
**Quantity limitation** Passenger aircraft/rail: Forbidden. Cargo aircraft: 15 kg.
**Special provisions** N40, W31

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.20-2.22 (Class 4).
**Explosive Limit and Limited Quantity Index** 0
**ERAP Index** 1000
**Passenger Carrying Vessel Index** Forbidden
**Passenger Carrying Road or Rail Index** Forbidden
**Special provisions** 38

**IMDG** : **Emergency schedules** F-G, S-O

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: Forbidden. Packaging instructions: Forbidden. Cargo Aircraft Only: 15 kg. Packaging instructions: 487. Limited Quantities - Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

# Section 15. Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### U.S. Federal regulations

#### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

##### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

# Section 15. Regulatory information

**Classification** : SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 1
ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
SKIN CORROSION - Category 1C
SERIOUS EYE DAMAGE - Category 1
TOXIC TO REPRODUCTION - Category 1B
HNOC - Corrosive to digestive tract
HNOC - Corrosive to respiratory tract

## Composition/information on ingredients

| Name | % | Classification |
|---|---|---|
| Sodium tetrahydroborate | 100 | SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 1<br>ACUTE TOXICITY (oral) - Category 3<br>ACUTE TOXICITY (dermal) - Category 3<br>SKIN CORROSION - Category 1C<br>SERIOUS EYE DAMAGE - Category 1<br>TOXIC TO REPRODUCTION - Category 1B<br>HNOC - Corrosive to digestive tract<br>HNOC - Corrosive to respiratory tract |

## State regulations

**Massachusetts** : This material is not listed.

**New York** : This material is not listed.

**New Jersey** : This material is not listed.

**Pennsylvania** : This material is not listed.

## California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Inventory list

**Australia** : This material is listed or exempted.

**Canada** : This material is listed or exempted.

**China** : This material is listed or exempted.

**Japan** : **Japan inventory (CSCL)**: This material is listed or exempted.
**Japan inventory (ISHL)**: This material is listed or exempted.

**New Zealand** : This material is listed or exempted.

**Philippines** : This material is listed or exempted.

**Republic of Korea** : This material is listed or exempted.

**Taiwan** : This material is listed or exempted.

# Section 15. Regulatory information

**Thailand** : This material is listed or exempted.

**Turkey** : This material is listed or exempted.

**United States** : This material is active or exempted.

**Viet Nam** : This material is listed or exempted.

# Section 16. Other information

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 1 | Expert judgment |
| ACUTE TOXICITY (oral) - Category 3 | On basis of test data |
| ACUTE TOXICITY (dermal) - Category 3 | On basis of test data |
| SKIN CORROSION - Category 1C | Expert judgment |
| SERIOUS EYE DAMAGE - Category 1 | Expert judgment |
| TOXIC TO REPRODUCTION - Category 1B | Expert judgment |

**History**

**Date of issue/Date of revision** : 05/26/2025

**Date of previous issue** : 09/30/2022

**Version** : 7

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
TDG = Transportation of Dangerous Goods
UN = United Nations

**Indicates information that has changed from previously issued version.**

**Notice to reader**

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