Safety Data Sheet

Cat. # 786-062

Sodium Cyanoborohydride

Size: 4 x 0.5g
SODIUM CYANOBOROHYDRIDE

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH) WITH ITS AMENDMENT REGULATION (EU) 2015/830

REVISION DATE: 5/11/2017   VERSION: 1.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

PRODUCT FORM: Substance

SUBSTANCE NAME: sodium cyanoborohydride

EC-No.: 247-317-2

CAS-No.: 25895-60-7

PRODUCT CODE: 223S

TYPE OF PRODUCT: Pure substance

FORMULA: NaBH3CN

SYNONYMS:
- borate(1-), (cyano-C)trihydro-, sodium, (beta-4)-
- borate(1-), (cyano-C)trihydro-, sodium, (T-4)-
- sodium (cyano-C)trihydroborate(1-)
- sodium borocyanohydride
- sodium cyanohydridoborate
- sodium cyanotrihydridoborate
- sodium cyanotrihydroborate

PRODUCT GROUP: Raw material

BIG NO: 31989

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1. RELEVANT IDENTIFIED USES

No additional information available.

1.2.2. USES ADVISED AGAINST

No additional information available.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Geno Technology, Inc. / G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre) City Hospital</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre) Gwernwyn Ward, Llandough Hospital</td>
<td>Penarth CF84 2XX Cardiff</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh</td>
<td>Little France Crescent EH16 4SA Edinburgh</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Guy's &amp; St Thomas' Poisons Unit Medical Toxicology Unit, Guy's &amp; St Thomas' Hospital Trust</td>
<td>Avenley Road SE14 5ER London</td>
<td>+44 20 7188 7188</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit</td>
<td>Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle</td>
<td>0344 892 0111</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: HAZARD IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]

Substances and Mixtures which, in contact with water, emit flammable gases, Category 1
Acute toxicity (oral), Category 3

H260
H301
sodium cyanoborohydride
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acute toxicity (dermal), Category 3  H311
Acute toxicity (inhal.), Category 3  H331
Skin corrosion/irritation, Category 1B  H314

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
In contact with water releases flammable gases which may ignite spontaneously. Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)

CLP Signal word : Danger
Hazard statements (CLP)
H260 - In contact with water releases flammable gases which may ignite spontaneously.
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)
P223 - Do not allow contact with water.
P231+P232 - Handle and store contents under inert gas. Protect from moisture.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep 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.
P310 - Immediately call a POISON CENTER or doctor.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P402+P404 - Store in a dry place. Store in a closed container.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance type : Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium cyanoborohydride</td>
<td>(CAS-No.) 25895-60-7 (EC-No.) 247-317-2</td>
<td>100</td>
<td>Water-react. 1, H260 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixtures
Not applicable
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:

First-aid measures after inhalation:
- Remove the victim into fresh air.

First-aid measures after skin contact:
- Wash immediately with lots of water (15 minutes)/shower. Soap may be used. Remove clothing while washing. Cover wounds with sterile bandage. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact:
- Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Do not apply neutralizing agents.

First-aid measures after ingestion:
- Rinse mouth with water. Do not induce vomiting. Do not give activated charcoal. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote. Call Poison Information Centre (www.big.be/antigif.htm).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation:

Symptoms/effects after skin contact:
- Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact:
- Visual disturbances. Corrosion of the eye tissue.

Symptoms/effects after ingestion:

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
- Quick-acting ABC powder extinguisher. Class B foam (after consulting specialist).

Unsuitable extinguishing media:

5.2. Special hazards arising from the substance or mixture

Fire hazard:
- DIRECT FIRE HAZARD: Non-flammable. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard:
- DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".

Hazardous decomposition products in case of fire:
- Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire:
- Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions:
- When cooling/extinguishing: no water in the substance. Do not move the load if exposed to heat. Dilute toxic gases with water spray.

Protection during firefighting:
- Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment:

Emergency procedures:

Measures in case of dust release:
**sodium cyanoborohydride**

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### 6.1.2. For emergency responders

**Protective equipment:**

Do not attempt to take action without suitable protective equipment. For further information, refer to section 8: "Exposure controls/personal protection".

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### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

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### 6.3. Methods and material for containment and cleaning up

**For containment:**

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Powdered form: no compressed air for pumping over spills.

**Methods for cleaning up:**

Cover spill with inert material, e.g.: dry sand dry lime or soda ash. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

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### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Additional hazards when processed:**

Pulverization rapidly increases toxic concentration.

**Precautions for safe handling:**

Avoid raising dust. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Avoid contact of substance with water. Keep container tightly closed.

**Hygiene measures:**

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:**


**Heat and ignition sources:**

KEEP SUBSTANCE AWAY FROM: heat sources. Ignition sources.

**Information on mixed storage:**

KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids.

**Storage area:**

Store in a dry area. Keep container in a well-ventilated place. Keep locked up. May be stored under nitrogen. May be stored under argon. Meet the legal requirements. Store at room temperature.

**Special rules on packaging:**

SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

**Packaging materials:**

SUITABLE MATERIAL: glass.

#### 7.3. Specific end use(s)

No additional information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

#### 8.2. Exposure controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Hand protection:**

Gloves

**Eye protection:**

Face shield. In case of dust production: protective goggles

**Skin and body protection:**

Corrosion-proof clothing. In case of dust production: head/neck protection

**Respiratory protection:**

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

**Environmental exposure controls:**

Avoid release to the environment.
**sodium cyanoborohydride**

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
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<tr>
<td>Appearance</td>
<td>Solid. Powder.</td>
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<tr>
<td>Molecular mass</td>
<td>62.84 g/mol</td>
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<td>Colour</td>
<td>White to off-white.</td>
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<td>Odour</td>
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<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
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<td>Melting point</td>
<td>241 °C</td>
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<tr>
<td>Freezing point</td>
<td>Not applicable</td>
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<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>241 °C</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td>In contact with water releases flammable gases which may ignite spontaneously.</td>
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<tr>
<td>Vapour pressure</td>
<td>No data available</td>
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<td>Relative vapour density at 20 °C</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility</td>
<td>Soluble in methanol. Soluble in tetrahydrofuran. Soluble in alcohols.</td>
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<td>Log Pow</td>
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<td>Viscosity, kinematic</td>
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<td>Viscosity, dynamic</td>
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<tr>
<td>Explosive properties</td>
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<td>Oxidising properties</td>
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<td>Explosive limits</td>
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**9.2. Other information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>VOC content</td>
<td>Not applicable (inorganic)</td>
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<tr>
<td>Other properties</td>
<td>Hygroscopic.</td>
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---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

In contact with water releases flammable gases which may ignite spontaneously.

**10.2. Chemical stability**

Unstable on exposure to moisture.

**10.3. Possibility of hazardous reactions**

In contact with water releases flammable gases which may ignite spontaneously.

**10.4. Conditions to avoid**

Water, humidity.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Hazardous decomposition products.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye damage, category 1, implicit</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

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Potential adverse human health effects and symptoms:
Toxic if swallowed. Obstructs oxygen absorption if ingested. Toxic in contact with skin. Causes severe skin burns. Toxic if inhaled. Corrosive to the respiratory tract. Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Before neutralisation, the product may represent a danger to aquatic organisms.
Ecology - water: Water pollutant (surface water). No data available on ecotoxicity.
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability
sodium cyanoborohydride (25895-60-7)
Persistence and degradability: Biodegradability: not applicable.
Chemical oxygen demand (COD): Not applicable
ThOD: Not applicable
BOD (% of ThOD): Not applicable

12.3. Bioaccumulative potential
sodium cyanoborohydride (25895-60-7)
Bioaccumulative potential: No bioaccumulation data available.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Remove to an authorized waste treatment plant. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Specific preliminary treatment.


European List of Waste (LoW) code: 15 01 10* - packaging containing residues of or contaminated by dangerous substances 16 03 03* - inorganic wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): Not regulated
UN-No. (IMDG): UN 3134
UN-No. (IATA): UN 3134
UN-No. (ADN): UN 3134
UN-No. (RID): Not regulated

14.2. UN proper shipping name
Proper Shipping Name (ADR): Not regulated
Proper Shipping Name (IMDG): FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA): Flammable solid, toxic, inorganic, n.o.s.
Proper Shipping Name (ADN): Water-reactive solid, toxic, n.o.s.
Proper Shipping Name (RID): Not regulated
Transport document description (IMDG): UN 3134 FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S., 4.1 (6.1), III
Transport document description (IATA): UN 3134 Flammable solid, toxic, inorganic, n.o.s., 4.3, I
Transport document description (ADN): UN 3134 Water-reactive solid, toxic, n.o.s., 4.3 (6.1), I
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14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : 4.1 (6.1)
Danger labels (IMDG) : 4.1, 6.1

IATA
Transport hazard class(es) (IATA) : 4.3 (6.1)
Hazard labels (IATA) : 4.3, 6.1

ADN
Transport hazard class(es) (ADN) : 4.3 (6.1)
Danger labels (ADN) : 4.3, 6.1

RID
Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated
Packing group (IMDG) : III
Packing group (IATA) : I
Packing group (ADN) : I
Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Transport regulations (IMDG) : Subject
Special provisions (IMDG) : 223, 274, 915
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC06
Tank instructions (IMDG) : T1
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-G
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
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Properties and observations (IMDG)
- Toxic if swallowed, by skin contact or by dust inhalation. Should be handled with care to minimize exposure, particularly to dust.

Air transport
- Transport regulations (IATA) : Subject to the provisions
- PCA Excepted quantities (IATA) : E1
- PCA Limited quantities (IATA) : Y443
- PCA limited quantity max net quantity (IATA) : 10kg
- PCA packing instructions (IATA) : 446
- PCA max net quantity (IATA) : 25kg
- CAO packing instructions (IATA) : 449
- CAO max net quantity (IATA) : 100kg
- Special provisions (IATA) : A3
- ERG code (IATA) : 3P

Inland waterway transport
- Classification code (ADN) : WT2

Rail transport
- Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
- No REACH Annex XVII restrictions
- sodium cyanoborohydride is not on the REACH Candidate List
- sodium cyanoborohydride is not on the REACH Annex XIV List
- sodium cyanoborohydride is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

- VOC content : Not applicable (inorganic)

15.1.2. National regulations
- Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment
- No chemical safety assessment has been carried out

SECTION 16: Other information
Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal), Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td>Water-react. 1</td>
<td>Substances and Mixtures which, in contact with water, emit flammable gases, Category 1</td>
</tr>
<tr>
<td>H260</td>
<td>In contact with water releases flammable gases which may ignite spontaneously.</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
</tbody>
</table>

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)
sodium cyanoborohydride
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.