

MATERIAL SAFETY DATA SHEET

Product Name: Sodium cyanoborohydride

CAS No.: 25895-60-7

Version: 0

1. Identification

Product Code : 93149
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Hazards Identification

Hazard classification

Flammable solids : Category 1
 Acute toxicity, Oral : Category 2
 Acute toxicity, Inhalation : Category 2
 Acute toxicity, Dermal : Category 2
 Skin corrosion : Category 1 B
 Acute aquatic toxicity : Category 1
 Chronic aquatic toxicity : Category 1

Labels elements

Hazard symbol



Signal word

Hazard statement

Precautionary statement

: Danger
 : Flammable solid. Fatal if swallowed, in contact with skin or if inhaled H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.
 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Ingredient : Sodium cyanotrihydridoborate
CAS No. : 25895-60-7
Percent : 95.0-105.5 %
Formula : CH_3BNNa
Molecular Weight : 62.84 g/mol

4. First Aid Measures**Description of first aid measures**

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed : No data available
Treatment

5. Fire fighting measures**Extinguishing media**

Suitable extinguishing media : Dry powder

Special hazards arising from the substance or mixture : Carbon oxides, Nitrogen oxides (NO_x), Hydrogen cyanide (hydrocyanic acid), Borane/boron oxides Carbon oxides, Borane/boron oxides, Sodium oxides

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Advice for firefighters : Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up** : Sweep up and shovel. \20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. \20 Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

7. Handling and storage

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Over time, pressure may increase causing containers to burst hygroscopic Handle and store under inert gas.

8. Exposure Controls / Personal Protection

- Exposure limit** : No data available
- Appropriate engineering controls** : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- Personal protective equipment**
- Respiratory protection : Air-purifying respirators
- Hand protection : Handle with gloves
- Eye protection : Safety glasses
- Skin and Body Protection : Lab coat.

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| | |
|--|-----------------------------|
| Appearance | : White to offwhite powder. |
| Odor | : No data available |
| pH | : No data available |
| Melting point/freezing point | : > 242 °C - dec |
| Initial boiling point and boiling range | : No data available |
| Flash Point | : No data available |
| Vapor pressure | : No data available |
| Vapor density | : No data available |
| Relative density | : No data available |
| Solubility in water | : No data available |
| Solubility (other) | : No data available |

10. Stability and Reactivity

| | |
|---|--|
| Reactivity | : No data available |
| Chemical stability | : Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : No data available |
| Conditions to avoid | : Do not allow water to enter container because of violent reaction. Heat, flames and sparks. |
| Incompatible materials | : Do not store near acids., Oxidizing agents |
| Hazardous decomposition products | : Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO _x), Hydrogen cyanide (hydrocyanic acid), Borane/boron oxides |

11. Toxicological Information**Information on toxicological effects**

| | |
|--|---------------------|
| Acute toxicity | : No data available |
| Skin corrosion/irritation | : No data available |
| Serious eye damage/eye irritation | : No data available |
| Respiratory or skin sensitization | : No data available |

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Germ cell mutagenicity : No data available

Carcinogenicity

IARC : No data available

NTP : No data available

OSHA : No data available

Reproductive toxicity : No data available

Route of Exposure : No data available

Signs and Symptoms of Exposure : No data available

12. Ecological Information

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available.

Other adverse effects : Very toxic to aquatic life with long lasting effects.

13. Disposal consideration

Disposal instructions : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Dispose of as unused product.

14. Transport Information

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|-------------|--------|--|------------------|-----------------|------------------|
| DOT | 3179 | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S. (Sodium cyanotrihydroborate) | 4.1 (6.1) | II | No |
| IMDG | 3179 | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S. (Sodium cyanotrihydroborate) | 4.1 (6.1) | II | No |
| IATA | 3179 | FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S. | 4.1 (6.1) | II | No |

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| | | | | | |
|--|--|------------------------------|--|--|--|
| | | (Sodium cyanotrihydroborate) | | | |
|--|--|------------------------------|--|--|--|

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**22/06/2017**Version : 0**

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