

Hydrazine Dihydrochloride CAS No 5341-61-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1Product identifiers Product name : Hydrazine Dihydrochloride | | | |
|--|---|------|--|
| | CAS-No. | : | 5341-61-7 |
| 1.2Re | levant identified uses of the | e si | ubstance or mixture and uses advised against |
| | Identified uses | : | Laboratory chemicals, Industrial & for professional use only. |
| 1.3De | tails of the supplier of the s a Company | | ty data sheet Pallav Chemicals & Solvents Pvt. Ltd 253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050 INDIA |
| | Telephone Email | - | +91 22 4928 4000 sales@pallavchemicals.com |
| 1.4 SECT | Emergency telephone numl Emergency Phone # | : | +91 22 4928 4000 (9:00am - 6:00 pm) [Office hours] |
| 2.1 Classification of the substance or mixture | | | |
| £1 | Classification of the substance of mixture Classification according to Regulation (EC) No 1272/2008 Carcinogenicity (Category 1B), H350 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Oral (Category 3), H301 Skin sensitisation (Category 1), H317 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16. | | |

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram

| Signal word | Danger |
|---------------------|-----------------------------|
| Hazard statement(s) | |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |

| | H317 H331 H350 H410 | May cause an allergic s Toxic if inhaled. May cause cancer. Very toxic to aquatic lif | skin reaction. e with long lasting effects. | |
|------|--|--|--|---------------|
| | Precautionary statement(s) P201 P261 P273 P280 P301 + P310 P311 | Obtain special instructi Avoid breathing dust/ for Avoid release to the en Wear protective gloves IF SWALLOWED: Imme physician. | ume/ gas/ mist/ vapours/ spray. wironment. | or doctor/ |
| | Supplemental Hazard Statements | none | | |
| | Restricted to professional u | isers. | | |
| 2.3 | Other hazards - none | | | |
| 0507 | | dia ang taong dia ata | | |
| | ION 3: Composition/informa | tion on ingredients | | |
| 3.1 | Substances Formula | H_{4N2 · 2HCI} 104,97 g/mol 5341-61-7 226-283-2 007-014-00-6 | Molecular weight CAS-No. EC-No. Index-No. | |
| | Registration number | : 01-2119510878-31-XXX | X | |
| | C C | | | |
| | Hazardous ingredients ac Component | cording to Regulation (EC | No 1272/2008 Classification | Concentration |
| | Hydrazine dihydrochloride CAS-No. EC-No. Index-No. Registration number | 5341-61-7 226-283-2 007-014-00-6 01-2119510878-31-XXXX | Acute Tox. 3; Skin Sens. 1; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H311, H317, H350, H400, H410 M-Factor - Aquatic Acute: 10 | <= 100 % |
| | For the full text of the H-Sta | atements mentioned in this S | Section, see Section 16. | |
| | | | | |
| SEC | FION 4: First aid measures | | | |

4.1 Description of first aid measures

General advice

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

If inhaled

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

In case of skin contact

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

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Hydrogen chloride gas
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 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.

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. Store under inert gas. Moisture sensitive. Handle under inert gas. Protect from moisture.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face 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 N100 (US) or type P3 (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).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains . Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: solid |
|----|--|-----------------------------|
| b) | Odour | No data available |
| c) | Odour Threshold | No data available |
| d) | рН | No data available |
| e) | Melting point/freezing point | Melting point/range: 200 °C |
| f) | Initial boiling point and boiling range | No data available |
| g) | Flash point | Not applicable |
| h) | Evaporation rate | No data available |
| i) | Flammability (solid, gas) | No data available |
| j) | Upper/lower flammability or explosive limits | No data available |
| k) | Vapour pressure | No data available |
| I) | Vapour density | No data available |
| m) | Relative density | 1,42 g/mL at 25 °C |
| n) | Water solubility | No data available |
| o) | Partition coefficient: n-octanol/water | No data available |
| p) | Auto-ignition temperature | No data available |
| q) | Decomposition temperature | No data available |
| r) | Viscosity | No data available |
| s) | Explosive properties | No data available |
| t) | Oxidizing properties | No data available |
| | | |

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents, Bases

10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 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 sensitisation May cause sensitisation by skin contact.

Germ cell mutagenicity

Hamster ovary Sister chromatid exchange

Carcinogenicity

Possible human carcinogen

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Cough, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, May cause convulsions., Liver injury may occur., Kidney injury may occur., Damage to the lungs.

SECTION 12: Ecological information

- **12.1 Toxicity** No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| 14.1 | UN number ADR/RID: 2811 | IMDG: 2811 | IATA: 2811 |
|------|---|----------------------------|------------|
| 14.2 | 2 UN proper shipping nameADR/RID:TOXIC SOLID, ORGANIC, N.O.S. (Hydrazine dihydrochloride)IMDG:TOXIC SOLID, ORGANIC, N.O.S. (Hydrazine dihydrochloride)IATA:Toxic solid, organic, n.o.s. (Hydrazine dihydrochloride) | | |
| 14.3 | Transport hazard class(es) ADR/RID: 6.1 | IMDG: 6.1 | IATA: 6.1 |
| 14.4 | Packaging group ADR/RID: III | IMDG: III | IATA: III |
| 14.5 | Environmental hazards ADR/RID: yes | IMDG Marine pollutant: yes | IATA: no |
| 14.6 | Special precautions for user No data available | | |

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

Hydrazine dihydrochlorideCAS-No.: 5341-61-7REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous
substances, preparations and articles (Annex XVII)Carcinogens: category 1B
Restricted to professional users.See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

| H301 | Toxic if swallowed. |
|------|---|
| H311 | Toxic in contact with skin. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| H350 | May cause cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.