SAFETY DATA SHEET

Preparation Date: No data available

Revision Date: 06/15/2015

Revision Number: G1

Product identifier

Product code: H2214
Product Name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER

Other means of identification

Synonyms: No information available
CAS #: Mixture
RTECS #: Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral Category 4
Acute toxicity - Dermal Category 4
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Specific target organ toxicity (single exposure) Category 3

Label elements
Danger

Hazard statements
Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
May cause respiratory irritation

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Harmful to aquatic life with long lasting effects
Harmful to aquatic life

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
Specific measures (see .? on this label)
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see .? on this label)
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/physician.
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product code: H2214
Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
3. COMPOSITION/INFORMATION ON INGREDIENTS

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<th>CAS-No.</th>
<th>Weight %</th>
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<td>124-09-4</td>
<td>100</td>
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<td>Water</td>
<td>7732-18-5</td>
<td>30</td>
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4. FIRST AID MEASURES

First aid measures

**General Advice:** Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Eye Contact:** Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! If you are going to give the subject artificial respiration, be extremely careful of the material you inhale. It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes serious eye irritation. Causes eye damage. Harmful in contact with skin. Causes severe skin burns. Harmful if swallowed. May cause irritation of respiratory tract.

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician: Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO2), Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides

**Specific hazards:** May be combustible at high temperatures

**Special Protective Actions for Firefighters**
Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use appropriate tools to put the spilled material in a suitable chemical waste disposal container.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials: No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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<th>Components</th>
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<th>ACGIH</th>
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Product code: H2214

Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
### Canada

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<td>0.5 ppm TWAEV</td>
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</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

- **Eye protection:** Goggles. Safety glasses with side-shields.
- **Skin and body protection:** Chemical resistant apron. Gloves. Long sleeved clothing.
- **Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

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**Product code:** H2214  
**Product name:** 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
9. PHYSICAL AND CHEMICAL PROPERTIES

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<td>Decomposition temperature(°C/°F): No information available</td>
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<td>Bulk density: No information available</td>
<td>Specific gravity: 0.89</td>
<td>Vapor pressure @ 20°C (kPa): The highest known value is 17.535 mmHg (water)</td>
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<td>Evaporation rate: No information available</td>
<td>Vapor density: The highest known value is 0.62 (water)</td>
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<td>VOC content (g/L): No information available</td>
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<td>Partition coefficient (n-octanol/water): No information available</td>
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<td>Viscosity: No information available</td>
<td>Miscibility: No information available</td>
<td>Solubility: Easily soluble in cold water</td>
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10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability
Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Incompatible Materials: No information available
Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product code: H2214  Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
None.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

- **ATEmix (oral)**: 1071mg/kg
- **ATEmix (dermal)**: 1586mg/kg

Component Information

1,6-Hexanediamine, 70% Solution in Water - 124-09-4

- **LD50/oral/rat** = 750 mg/kg Oral LD50 Rat
- **LD50/oral/mouse** = No information available
- **LD50/dermal/rat** = No information available
- **LD50/dermal/rabbit** = 1110 mg/kg Dermal LD50 Rabbit
- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

Water - 7732-18-5

- **LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat
- **LD50/oral/mouse** = No information available
- **LD50/dermal/rat** = No information available
- **LD50/dermal/rabbit** = No information available
- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

Product Information

- **LD50/oral/rat** = VALUE- Acute Tox Oral = No information available
- **LD50/oral/mouse** = Value - Acute Tox Oral = No information available
- **LD50/dermal/rabbit** = VALUE-Acute Tox Dermal = No information available
- **LD50/dermal/rat** = VALUE - Acute Tox Dermal = No information available
- **LC50/inhalation/rat** = VALUE-Vapor = No information available
- **LC50/inhalation/mouse** = VALUE-Gas = No information available
- **LC50/inhalation/mouse** = VALUE-Dust/Mist = No information available
- **LC50/Inhalation/mouse** = VALUE - Dust/Mist = No information available

Symptoms

Product code: H2214

Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
Skin Contact: Harmful in contact with skin. Causes severe irritation and burns.

Eye Contact: Causes severe eye irritation and possible burns.

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause digestive (gastointestinal) tract irritation.

Aspiration hazard: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity: No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</table>

Reproductive toxicity: No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available

STOT - repeated exposure: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

1,6-Hexanediamine, 70% Solution in Water - 124-09-4

Freshwater Algae Data: 14.8 mg/L EC50 Pseudokirchneriella subcapitata 96 h
15 mg/L EC50 Pseudokirchneriella subcapitata 72 h

Freshwater Fish Species Data: 1825 mg/L LC50 Pimephales promelas 96 h static 1
56 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 23.4 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

Product code: H2214 Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<tbody>
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<tr>
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14. TRANSPORT INFORMATION

DOT

UN-No: UN1783
Proper Shipping Name: Hexamethylenediamine solution
Hazard Class: 8
Subsidiary Risk:
Packing Group: II
ERG No: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Symbol(s):

TDG (Canada)

UN-No: UN1783
Proper Shipping Name: Hexamethylenediamine solution
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Description: No information available

ADR

UN-No: UN1783
Proper Shipping Name: Hexamethylene-diamine solution
Hazard Class: 8
Packing Group: II
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN1783
Proper Shipping Name: Hexamethylenediamine solution

Product code: H2214 Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
14. TRANSPORT INFORMATION

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RID

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ICAO

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15. REGULATORY INFORMATION

International Inventories

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<th>U.S. TSCA</th>
<th>KOREA KECL</th>
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<th>Japan ENCS</th>
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<th>Australia (AICS)</th>
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<td>Present 231-791-2</td>
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U.S. Regulations

1,6-Hexanediamine, 70% Solution in Water

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0994
Minnesota - Hazardous Substance List: Present


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)
Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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<th>Carcinogen</th>
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<th>Male Reproductive Toxicity</th>
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CERCLA/SARA

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<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
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U.S. TSCA

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<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Water</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D2A Very toxic materials
E Corrosive material

1,6-Hexanediamine, 70% Solution in Water
E

Water
Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,6-Hexanediamine, 70% Solution in Water</td>
<td>1 %</td>
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</table>

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,6-Hexanediamine, 70% Solution in Water</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Water</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,6-Hexanediamine, 70% Solution in Water</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Water</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Product code: H2214
Product name: 1,6-HEXANEDIAMINE, 70 PERCENT SOLUTION IN WATER
EU Classification

**R-phrase(s)**
R34 - Causes burns.
R43 - May cause sensitization by skin contact.
R21/22 - Harmful in contact with skin and if swallowed.

**S-phrase(s)**
none

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,6-Hexanediamine, 70% Solution in Water</td>
<td>Xn; R21/22</td>
<td>No information</td>
<td>S1/2 S22 S26 S36/37/39 S45</td>
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<tr>
<td></td>
<td>C; R34</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Xi; R37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
None.

**16. OTHER INFORMATION**
Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet