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

1.1. Product identifier

Name of the substance: H1 Glycan Cleavage Reagent
Identification number: 007-008-00-3
Registration number: -
Synonyms: Diamine * Anhydrous hydrazine * N2H4
SDS number: SDS WS0155
Product code: WS0155
Issue date: 15-September-2013
Version number: AE
Revision date: -
Supersedes date: 25-April-2013

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

Identified uses: Research and development.
Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet

Supplier
Company name: ProZyme, Inc.
Address: 3832 Bay Center Place
Hayward, CA 94545
Division
Telephone: 1-510-638-6900
e-mail: Not available.
Contact person: Not available.

1.4. Emergency telephone number

1-760-476-3961

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended
Classification
R10, Carc. Cat. 2; R45, T; R23/24/25, C; R34, R43, N; R50/53

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards
Flammable liquids Category 2

Health hazards
Acute toxicity, oral Category 3
Acute toxicity, dermal Category 3
Acute toxicity, inhalation Category 3
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Skin sensitisation Category 1
Carcinogenicity Category 1B

Environmental hazards
Hazardous to the aquatic environment, acute aquatic hazard Category 1
Hazard summary

Physical hazards: Flammable.
Health hazards: May cause cancer. Also toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards: Prolonged exposure may cause chronic effects. Corrosive effects. Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Sensitisation.

Main symptoms: Corrosive effects. Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Sensitisation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended
Contains: Hydrazine
Identification number: 007-008-00-3
Hazard pictograms:

Signal word: Danger
Hazard statements:
H225 - Highly flammable liquid and vapour.
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H350 - May cause cancer.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:
Prevention: P201 - Obtain special instructions before use.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P273 - Avoid release to the environment.
Response: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
Storage: P405 - Store locked up.
Disposal: P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information:
Corrosive to the respiratory tract.

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrazine</td>
<td>100</td>
<td>302-01-2 206-114-9</td>
<td>-</td>
<td>007-008-00-3</td>
<td></td>
</tr>
</tbody>
</table>

Classification:
DSD: R10, Carc. Cat. 2; R45, T; R23/24/25, C; R34, R43, N; R50/53
CLP: Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Skin Corr. 1B; H314, Skin Sens. 1; H317, Acute Tox. 3; H331, Carc. 1B; H350, Aquatic Chronic 1; H410

DSD: Directive 67/548/EEC.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments:
The full text for all R- and H-phrases is displayed in section 16.
SECTION 4: First aid measures

General information
Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim 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. Call a physician or poison control center immediately.

Skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a physician or poison control center immediately. Chemical burns must be treated by a physician.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

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

Burning pain and severe corrosive skin damage. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause allergic skin reaction. Dermatitis.

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

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

SECTION 5: Firefighting measures

General fire hazards
Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media
Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all sources of ignition. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major spillages.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapours may form explosive mixtures with air. May be ignited by open flame. Eliminate all sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Explosion-proof general and local exhaust ventilation. Do not get in eyes, on skin, on clothing. Do not breathe vapour. Wear appropriate personal protective equipment. Use only outdoors or in a well-ventilated area. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s)
Research and development.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Hydrazine (CAS 302-01-2)</td>
<td>STEL</td>
<td>0.52 mg/m3</td>
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<td>TWA</td>
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<tr>
<td></td>
<td></td>
<td>0.1 ppm</td>
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</table>

Belgium. Exposure Limit Values.

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<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td>0.01 ppm</td>
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</table>

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
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<td>Hydrazine (CAS 302-01-2)</td>
<td>TWA</td>
<td>0.1 mg/m3</td>
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</table>

Czech Republic. OELs. Government Decree 361

<table>
<thead>
<tr>
<th>Material</th>
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Denmark. Exposure Limit Values

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</table>

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
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<td>Hydrazine (CAS 302-01-2)</td>
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<td></td>
<td>TWA</td>
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Finland. Workplace Exposure Limits

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<td>Hydrazine (CAS 302-01-2)</td>
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<td></td>
<td>TWA</td>
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</table>

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
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<td>Regulation</td>
<td>Material</td>
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<td>OELs (Decree No. 90/1999, as amended)</td>
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<td>OELs. Joint Decree on Chemical Safety of Workplaces</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<td>Iceland</td>
<td>OELs. Regulation 154/1999 on occupational exposure limits</td>
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<td>Ireland</td>
<td>Occupational Exposure Limits</td>
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<td>Italy</td>
<td>OELs</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<td>Latvia</td>
<td>OELs. Occupational exposure limit values of chemical substances in work environment</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<td>Lithuania</td>
<td>OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)</td>
<td>Hydrazine (CAS 302-01-2)</td>
</tr>
<tr>
<td>Norway</td>
<td>Administrative Norms for Contaminants in the Workplace</td>
<td>Hydrazine (CAS 302-01-2)</td>
</tr>
<tr>
<td>Poland</td>
<td>MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<tr>
<td>Portugal</td>
<td>VLEs. Norm on occupational exposure to chemical agents (NP 1796)</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<tr>
<td>Romania</td>
<td>OELs. Protection of workers from exposure to chemical agents at the workplace</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<tr>
<td>Slovenia</td>
<td>OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)</td>
<td>Hydrazine (CAS 302-01-2)</td>
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<tr>
<td>Switzerland</td>
<td>SUVA Grenzwerte am Arbeitsplatz</td>
<td>Hydrazine (CAS 302-01-2)</td>
</tr>
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</table>
### Switzerland. SUVA Grenzwerte am Arbeitsplatz

<table>
<thead>
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<th>Type</th>
<th>Value</th>
</tr>
</thead>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrazine (CAS 302-01-2)</td>
<td>STEL</td>
<td>0,13 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,1 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0,03 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,02 ppm</td>
</tr>
</tbody>
</table>

| Biological limit values           |        | No biological exposure limits noted for the ingredient(s). |
| Recommended monitoring procedures |        | Follow standard monitoring procedures. |
| Derived no-effect level (DNEL)    |        | Not available. |
| Predicted no effect concentrations (PNECs) | | Not available. |

| 8.2. Exposure controls            |        | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Explosion-proof general and local exhaust ventilation. Eye wash facilities and emergency shower must be available when handling this product. |

| Individual protection measures, such as personal protective equipment |        | Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. |
| General information                                                     |        | Wear safety glasses with side shields (or goggles) and a face shield. |
| Eye/face protection                                                      |        | Wear appropriate chemical resistant gloves. |
| Skin protection                                                          |        | Wear appropriate chemical resistant clothing. |
| - Hand protection                                                        |        | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. |
| - Other                                                                  |        | Wear appropriate thermal protective clothing, when necessary. |
| Respiratory protection                                                   |        | When using, do not eat, drink or smoke. Do not get this material on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |
| Hygiene measures                                                         |        | Environmental manager must be informed of all major releases. |

| Environmental exposure controls |        | |

### SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical and chemical properties |        | |
| Appearance                                               | Clear liquid. |
| Physical state                                           | Liquid. |
| Form                                                     | Liquid. |
| Colour                                                   | Off-white to light brown. |
| Odour                                                    | Ammonia-like. |
| Odour threshold                                          | Not available. |
| Melting point/freezing point                             | 1,54 °C (34,77 °F) |
| Initial boiling point and boiling range                  | 113 °C (235,4 °F) |
| Flash point                                              | 23,0 - 55,0 °C (73,4 - 131,0 °F) |
| Evaporation rate                                         | Not available. |
| Flammability (solid, gas)                                | Not available. |
Upper/lower flammability or explosive limits

- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.

Vapour density: Not available.
Relative density: Not available.
Partition coefficient (n-octanol/water): Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Explosive properties: Not available.
Oxidizing properties: Not available.

9.2. Other information
No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Material is stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
Heat, flames and sparks. Avoid temperatures exceeding the flash point.

10.5. Incompatible materials
Acids.

10.6. Hazardous decomposition products
No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information
Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

- Ingestion: Toxic if swallowed. Causes digestive tract burns.
- Inhalation: Toxic by inhalation.
- Skin contact: Toxic in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.
- Eye contact: Causes severe eye burns.

Symptoms
Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.

11.1. Information on toxicological effects

Acute toxicity
Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrazine (CAS 302-01-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>91 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>60 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/eye irritation
Causes severe eye burns.

Respiratory sensitisation
Due to lack of data the classification is not possible.

Skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Due to lack of data the classification is not possible.

Carcinogenicity
May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
Hydrazine (CAS 302-01-2) 2B Possibly carcinogenic to humans.

Reproductive toxicity
Due to lack of data the classification is not possible.

Specific target organ toxicity - single exposure
Due to lack of data the classification is not possible.
SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water flea (Daphnia pulex)</td>
<td>EC50, 0.13 - 0.19 mg/l, 48 hours</td>
</tr>
<tr>
<td>Bluegill (Lepomis macrochirus)</td>
<td>LC50, 0.54 - 1.31 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available for this product.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not available.

12.6. Other adverse effects

No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

14.1. UN number
UN2029

14.2. UN proper shipping name
HYDRAZINE, ANHYDROUS

14.3. Transport hazard class(es)
8

14.4. Packing group
1

14.5. Environmental hazards
Yes

14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number
UN2029

14.2. UN proper shipping name
HYDRAZINE, ANHYDROUS

14.3. Transport hazard class(es)
8

14.4. Subsidiary class(es)
-
14.4. Packing group | Yes
14.5. Environmental hazards | 8+3+6.1
14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number | UN2029
14.2. UN proper shipping name | Hydrazine, Anhydrous
14.3. Transport hazard class(es) | 8
14.4. Packing group | I
14.5. Environmental hazards | Yes
14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number | UN2029
14.2. UN proper shipping name | Hydrazine, anhydrous
14.3. Transport hazard class(es) | 8
14.4. Packing group | I
14.5. Environmental hazards | Yes

IMDG
14.1. UN number | UN2029
14.2. UN proper shipping name | HYDRAZINE, ANHYDROUS
14.3. Transport hazard class(es) | 8
14.4. Packing group | I
14.5. Environmental hazards | Marine pollutant
Labels required | 8, +3, +6.1
EmS | F-E, S-C
14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
Not listed.
Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
Hydrazine (CAS 302-01-2)

Authorisations
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended
Not listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Hydrazine (CAS 302-01-2)
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
Hydrazine (CAS 302-01-2)

Other EU regulations
Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Hydrazine (CAS 302-01-2)
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Hydrazine (CAS 302-01-2)
Directive 94/33/EC on the protection of young people at work
Hydrazine (CAS 302-01-2)

Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations
Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information
List of abbreviations
LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
EC50: Effective concentration, 50%.
TWA: Time weighted average.
STEL: Short term exposure limit.

References
HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15
R10 Flammable.
R23/24/25 Also toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitisation by skin contact.
R45 May cause cancer.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Training information
Follow training instructions when handling this material.
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