

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

- 1.1 Product Identifier** SD 1473 Hardener  
 GHS Product Identifier SD 1473 Hardener  
 Chemical Name Not applicable  
 Trade Name SD 1473 Hardener  
 CAS No. Mixture  
 EINECS No. Mixture  
 REACH Registration No. Not available
- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**  
 Identified Use(s)  
 Uses Advised Against Users are recommended to seek further advice.
- 1.3 Details of The Supplier of the Safety Data Sheet**  
 Company Identification Devitt Machinery Co., Inc.  
 Address 4009 Market St., Unit G, Aston, PA 19014 USA  
 Telephone (610) 999-8872  
 E-Mail (Competent Person)
- 1.4 Emergency Telephone Number – ChemTel Inc.**  
**Emergency Phone No. (800) 255-3924 (USA/Canada), (813) 248-0585 (International)**

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the Substance or Mixture**

**2.1.1 Regulation (EC) No. 1272/2008 (CLP) - Harmful (Inhalation, Dermal), Corrosive (Skin, Eye), Skin Sensitizer, Aquatic Acute 1, Aquatic Chronic 1 (3.1/4, 3.2/1B, 3.3/1, 3.4/1, 4.1/1)**

**2.1.2 Directive 67/548/EEC & Directive 1999/45/EC - HARMFUL, IRRITANT, ENVIRONMENT**

**2.2 Label Elements****2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CLP)**

GHS Product Identifier (EU)

Hazard

Pictogram(s)



Signal Word(s)

**DANGER**

Hazard

Statement(s)

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary

Statement(s)

P264: Wash (hands and exposed skin) thoroughly after handling.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P309 + P311: If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to: Approved waste facility.

**2.2.2 Label Elements According to Directive 67/548/EEC & Directive 1999/45/EC**

Hazard Symbol



Risk Phrases

R20/21: Harmful by inhalation and in contact with skin.

R34: Causes burns.

R43: May cause sensitization by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases S1/2: Keep locked up and out of the reach of children.  
S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with plenty of soap and water.  
S29: Do not empty into drains.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S51: Use only in well-ventilated areas.

**2.3 Other Hazards** **GHS Classification (USA): Hazardous under OSHA Hazard Communication Standard – DANGER - Corrosive/Irritant (Eyes, Skin), May be harmful if swallowed. HMIS: Health-2, Flammability-1, Reactivity – 0**



**WHMIS Classification (Canada): Hazardous under WHMIS Class D2B, Material with Other Toxic Effects, Class E, Corrosive Material**



## 2.4 Additional Information

### Potential Health Effects

*Inhalation* Harmful by inhalation. Irritating to respiratory system.  
*Skin Contact* May cause sensitization by skin contact. Irritant and corrosive effects.  
*Eye Contact* Causes serious eye damage. Irritant and corrosive effects  
*Ingestion* Harmful if swallowed. Irritation of digestive tract.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### EC Classification No. 1272/2008/EC

| Hazardous Ingredient(s)                           | %W/W   | CAS No.   | EC No.    | REACH Registration No. | Hazard Pictogram(s) and Hazard Statement(s)              |
|---------------------------------------------------|--------|-----------|-----------|------------------------|----------------------------------------------------------|
| 3,6,9,12-tetra-azatetra-decamethylenediamine      | 50-100 | 4067-16-7 | 223-775-9 | 612-064-00-2           | 3.2/1, 3.4/1, 4.1/1; H314, H317, H400, H410              |
| 2,2'-dimethyl-4,4'-methylene-bis(cyclohexylamine) | 2.5-5  | 6864-37-5 | 229-962-1 | 612-110-00-1           | 3.1/3, 3.1/4, 3.2/1, 4.1/2; H302, H311, H314, H331, H411 |

### EC Classification No. 67/548/EEC

| Hazardous Ingredient(s)                          | %W/W   | CAS No.   | EC No.    | REACH Registration No. | Hazard Pictogram(s) and Risk Phrases |
|--------------------------------------------------|--------|-----------|-----------|------------------------|--------------------------------------|
| 3,6,9,12-tetra-azatetradecamethylenediamine      | 50-100 | 4067-16-7 | 223-775-9 | 612-064-00-2           | C, N: R34, R43, R50/53               |
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | 2.5-5  | 6864-37-5 | 229-962-1 | 612-110-00-1           | T, C, N: R22, R23/24, R35, R51/53    |

### 3.3 Additional Information

- For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

*Inhalation* Remove patient from exposure, keep warm and at rest. Apply artificial respiration if breathing has ceased or shows signs of failing.  
*Skin Contact* Remove contaminated clothing immediately and wash affected skin with soap and water. Do not use solvents or diluting agents for skin cleaning.

|                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact                                                                           | After initial flushing, remove any contact lenses and continue flushing. Get medical advice/attention.                                                                                                                                                                                                                                                                     |
| Ingestion                                                                             | If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention. Do not induce vomiting.                                                                                                                                                                                                                                              |
| <b>4.2 Most Important Symptoms and Effects, Both Acute and Delayed</b>                | <b>Acute:</b> Irritating to respiratory system. Causes burns to skin and eyes. Skin sensitisation has been reported in humans. May be harmful if swallowed.<br><b>Delayed and Chronic Effects: Generally similar to acute exposures, plus the following:</b> May cause corneal damage. Allergic contact dermatitis may occur. Danger of very serious irreversible effects. |
| <b>4.3 Indication of The Immediate Medical Attention and Special Treatment Needed</b> | Treat symptomatically.                                                                                                                                                                                                                                                                                                                                                     |

**SECTION 5: FIRE-FIGHTING MEASURES**

|                                                                              |                                                                                                                                                   |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Combustible but not readily ignited. Acrid smoke. Flash Point 118°C / 244°F. |                                                                                                                                                   |
| <b>5.1 Extinguishing Media</b>                                               |                                                                                                                                                   |
| Suitable Extinguishing Media                                                 | Extinguish with carbon dioxide, dry chemical, foam or waterspray.                                                                                 |
| Unsuitable Extinguishing Media                                               | Do not use strong water jet.                                                                                                                      |
| <b>5.2 Special Hazards Arising From The Substance Or Mixture</b>             | Dense black smoke occurs during fire. Can melt and burn in a fire. Inhaling hazardous decomposing products can cause serious health damage.       |
| <b>5.3 Advice For Fire-Fighters</b>                                          | A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Provide a respiratory protective device. |

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|                                                                                |                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures</b> | Keep away from sources of ignition. Do not breathe vapour. Work in well ventilated zones or use proper respiratory protection. Ensure suitable personal protection during removal of spillages. Ventilation recommended. |
| <b>6.2 Environmental Precautions</b>                                           | Do not allow into any sewer on the ground, or into any body of water. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.                           |
| <b>6.3 Methods and Material For Containment and Cleaning Up</b>                | Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery.                                                                                           |
| <b>6.4 Reference To Other Sections</b>                                         | See Also Section 7, 8, 10, 13.                                                                                                                                                                                           |
| <b>6.5 Additional Information</b>                                              | None                                                                                                                                                                                                                     |

**SECTION 7: HANDLING AND STORAGE**

|                                                                         |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1 Precautions For Safe Handling</b>                                | Avoid ingestion. Use only in well-ventilated areas. Do not breathe vapour. Keep away from oxidizing agents. Keep away from fire, sparks and heated surfaces - no smoking. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Follow legal protection and safety regulations. |
| <b>7.2 Conditions For Safe Storage, Including Any Incompatibilities</b> | Protect from sunlight. Store in a well-ventilated place. Do not use or store near heat or open flame. Do not store and transport with oxidizers etc.                                                                                                                                                                     |
| Storage Temperature                                                     | Ambient.                                                                                                                                                                                                                                                                                                                 |
| Storage Life                                                            | Not available                                                                                                                                                                                                                                                                                                            |
| Incompatible Materials                                                  | Oxidizing agents                                                                                                                                                                                                                                                                                                         |
| <b>7.3 Specific End Use(s)</b>                                          | Consult the supplier.                                                                                                                                                                                                                                                                                                    |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control Parameters

## 8.1.1 Occupational Exposure Limits

| Substance                                        | CAS No.   | LTEL<br>(8 hr TWA ppm) | LTEL<br>(8 hr TWA mg/m <sup>3</sup> ) | STEL<br>(ppm) | STEL<br>(mg/m <sup>3</sup> ) | Note: |
|--------------------------------------------------|-----------|------------------------|---------------------------------------|---------------|------------------------------|-------|
| 3,6,9,12-tetra-aza-tetradecamethylene-diamine    | 4067-16-7 | NE                     | NE                                    | NE            | NE                           | NA    |
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | 6864-37-5 | NE                     | NE                                    | NE            | NE                           | NA    |

## 8.1.2 Biological Limit Value

| Limit Value Type (Country Of Origin) | Substance | CAS No. | Biological Limit Value | Note: |
|--------------------------------------|-----------|---------|------------------------|-------|
| USA                                  | None      | None    | None                   | None  |

## 8.1.3 PNECs and DNELs

| DNEL                                         | Oral | Inhalation | Dermal |
|----------------------------------------------|------|------------|--------|
| Industry - Long Term – Local effects         | NA   | NA         | NA     |
| Industry - Long Term - Systemic effects      | NA   | NA         | NA     |
| Industry - Short term - Local effects        | NA   | NA         | NA     |
| Industry - Short term - Systemic effects     | NA   | NA         | NA     |
| Professional - Long Term - Local effects     | NA   | NA         | NA     |
| Professional - Long Term – Systemic effects  | NA   | NA         | NA     |
| Professional - Short term - Local effects    | NA   | NA         | NA     |
| Professional - Short term - Systemic effects | NA   | NA         | NA     |
| Consumer - Long Term - Local effects         | NA   | NA         | NA     |
| Consumer - Long Term - Systemic effects      | NA   | NA         | NA     |
| Consumer - Short term - Local effects        | NA   | NA         | NA     |
| Consumer - Short term - Systemic effects     | NA   | NA         | NA     |

|                         | PNEC          |
|-------------------------|---------------|
| Aquatic Compartment     | Not available |
| Terrestrial Compartment | Not available |
| Atmospheric Compartment | Not available |

## 8.2.2 Personal Protection Equipment

|                                                                                     |                             |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Respirators</b>          | Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.                                                                                                                                |
|  | <b>Eye Protection</b>       | Wear protective eye glasses for protection against liquid splashes.                                                                                                                                                                                  |
|  | <b>Gloves</b>               | Wear protective gloves: Nitrile rubber or Butyl rubber. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Use skin barrier cream before handling the product. |
|  | <b>Body Protection</b>      | Wear suitable protective clothing and gloves. Anti-static clothing and shoes are recommended.                                                                                                                                                        |
|                                                                                     | <b>Engineering Controls</b> | Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours.                                                                                                                                  |
|                                                                                     | <b>Other</b>                | Remove contaminated, saturated clothing immediately. Contaminated clothing should be thoroughly cleaned.                                                                                                                                             |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information On Basic Physical And Chemical Properties

|                                          |                       |                                  |                     |
|------------------------------------------|-----------------------|----------------------------------|---------------------|
| Appearance                               | Liquid.               | Color                            | Clear               |
| Odor                                     | Poor / Characteristic | Odor Threshold (ppm)             | Not available       |
| Melting Point (°C) / Freezing Point (°C) | Not available         | Boiling Point/Boiling Range (°C) | Not available       |
| Flash Point (°C)                         | 118°C / 244°F         | Explosive Limit Ranges           | Not available       |
| Auto Ignition Temperature (°C)           | 300°C / 572°F         | Decomposition Temperature (°C)   | Not available       |
| Explosive Properties                     | Not available         | Oxidizing Properties             | Not available       |
| Flammability (Solid, Gas)                | Not available         | pH (Value)                       | Not available       |
| Evaporation Rate                         | Not available         | Vapor Pressure (mm Hg)           | Not available       |
| Vapor Density (Air=1)                    | Not available         | Density (g/ml)                   | 0.988 g/cm³ at 20°C |
| Solubility (Water)                       | Insoluble in water.   | Solubility (Other)               | Not available       |
| Partition Coefficient (n-Octanol/water)  | Not available         | Viscosity (mPa.s)                | 900 mPa.s           |

9.2 Other Information Volatile Organic Chemical (VOC) Content – Not available.

## SECTION 10: STABILITY AND REACTIVITY

|                                         |                                                                                                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | Slight                                                                                                            |
| 10.2 Chemical Stability                 | Stable under normal conditions.                                                                                   |
| 10.3 Possibility Of Hazardous Reactions | Can react violently if in contact with - Oxidizing agents, Acids, Alkalis. Reacts with - Water                    |
| 10.4 Conditions To Avoid                | Avoid contact with heat and ignition sources.                                                                     |
| 10.5 Incompatible Materials             | Oxidizing agents, Acids, Alkalis, Alcohols, Amines and Water.                                                     |
| 10.6 Hazardous Decomposition Product(s) | Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrocyanic acid, Alcohols, Amines and other organic compounds. |

## SECTION 11: TOXICOLOGICAL INFORMATION

| SUBSTANCE.                                       | CAS No.   | LD <sub>50</sub><br>(Oral, Rat) | LC <sub>50</sub><br>(Inhalation, Rat) | LD50<br>(Dermal, Rat) |
|--------------------------------------------------|-----------|---------------------------------|---------------------------------------|-----------------------|
| 3,6,9,12-tetra-azatetradecamethylenediamine      | 4067-16-7 | 1600 mg/kg                      | Not established                       | Not established       |
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | 6864-37-5 | Not established                 | Not established                       | Not established       |

## 11.1 Information On Toxicological Effects

## 11.1.2 Mixtures

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| Acute Toxicity            | Headache, dizziness, fatigue, amyosthenia and in serious cases unconsciousness.                          |
| Irritation                | Causes serious eye damage. May cause burns.<br>Causes skin irritation. May cause respiratory irritation. |
| Corrosivity               | Corrosive to: Skin, Eyes                                                                                 |
| Sensitisation             | May produce an allergic skin reaction.                                                                   |
| Repeated Dose Toxicity    | Similar to single exposures; allergic dermatitis may develop.                                            |
| Carcinogenicity           | No data.                                                                                                 |
| Mutagenicity              | No data.                                                                                                 |
| Toxicity For Reproduction | No data.                                                                                                 |

11.2 Other Information None

## SECTION 12: ECOLOGICAL INFORMATION

|                                                |                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1 Toxicity</b>                           | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.                                                        |
| <b>12.2 Persistence and Degradability</b>      | No data                                                                                                                                            |
| <b>12.3 Bioaccumulative Potential</b>          | No data                                                                                                                                            |
| <b>12.4 Mobility In Soil</b>                   | No data                                                                                                                                            |
| <b>12.5 Results Of PBT and vPvB Assessment</b> | No data                                                                                                                                            |
| <b>12.6 Other Adverse Effects</b>              | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br>Toxic to aquatic life with long lasting effects |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                                     |                                                                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13.1 Waste Treatment Methods</b> | Disposal should be in accordance with local, state or national legislation. Containers must not be punctured or destroyed by burning, even when empty. |
| <b>13.2 Additional Information</b>  | None                                                                                                                                                   |

## SECTION 14: TRANSPORT INFORMATION

**Land Transport (ADR/RID) (c)(d)**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN Number                    | UN 2735                                                                 |
| Proper Shipping Name         | Amines, liquid, corrosive, n.o.s. (tetra-azatetra-decamethylenediamine) |
| Transport Hazard Class(es)   | 8                                                                       |
| Packing Group                | III                                                                     |
| Hazard Label(s)              | 8                                                                       |
| Environmental Hazards        | None                                                                    |
| Special Precautions For User | None                                                                    |

**Sea Transport (IMDG) (c)(d)**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN Number                    | UN 2735                                                                 |
| Proper Shipping Name         | Amines, liquid, corrosive, n.o.s. (tetra-azatetra-decamethylenediamine) |
| Transport Hazard class(es)   | 8                                                                       |
| Packing Group                | III                                                                     |
| Marine Pollutant             | p                                                                       |
| Special Precautions For User | None                                                                    |

**Land Transport (Within USA) (c)(d)**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN Number                    | UN 2735                                                                 |
| Proper Shipping Name         | Amines, liquid, corrosive, n.o.s. (tetra-azatetra-decamethylenediamine) |
| Transport Hazard Class(es)   | 8                                                                       |
| Packing Group                | III                                                                     |
| Hazard Label(s)              | 8                                                                       |
| Environmental Hazards        | None                                                                    |
| Special Precautions For User | None                                                                    |

**Air Transport (ICAO/IATA) (c) (d)**

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| UN Number                    | UN 2735                                                                 |
| Proper Shipping Name         | Amines, liquid, corrosive, n.o.s. (tetra-azatetra-decamethylenediamine) |
| Transport Hazard class(es)   | 8                                                                       |
| Packing Group                | III                                                                     |
| Environmental Hazards        | None                                                                    |
| Special Precautions For User | None                                                                    |

(c)– Consult with transport provider.

(d)– Check relevant regulations for Special Provisions.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture****15.1.1 EU Regulations**

|                                    |                       |
|------------------------------------|-----------------------|
| Authorisations And/Or Restrictions | Consult the supplier. |
|------------------------------------|-----------------------|

|        |  |
|--------|--|
| On Use |  |
|--------|--|

|                                |                       |
|--------------------------------|-----------------------|
| European Union (EINECS/ELINCS) | All chemicals listed. |
|--------------------------------|-----------------------|

|                   |                 |
|-------------------|-----------------|
| German WGK Number | Not Applicable. |
|-------------------|-----------------|

**15.1.2 National Regulations****USA**

|                                    |                       |
|------------------------------------|-----------------------|
| TSCA (Toxic Substance Control Act) | All chemicals listed. |
|------------------------------------|-----------------------|

|                                  |              |
|----------------------------------|--------------|
| SARA 311/312 - Hazard Categories | Acute Health |
|----------------------------------|--------------|

|                                           |                |
|-------------------------------------------|----------------|
| SARA 302 - Extremely Hazardous Substances | Listed. - None |
|-------------------------------------------|----------------|

|                            |                |
|----------------------------|----------------|
| SARA 313 - Toxic Chemicals | Contains: None |
|----------------------------|----------------|

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| CERCLA (Comprehensive Environmental Response Compensation and Liability Act) | Listed - None |
|------------------------------------------------------------------------------|---------------|

|                          |               |
|--------------------------|---------------|
| CAA (Clean Air Act 1990) | Listed - None |
|--------------------------|---------------|

|                       |               |
|-----------------------|---------------|
| CWA (Clean Water Act) | Listed - None |
|-----------------------|---------------|

|                           |                                  |
|---------------------------|----------------------------------|
| State Right to Know Lists | Listed. -MA, MN, NJ, PA, and RI. |
|---------------------------|----------------------------------|

|                             |               |
|-----------------------------|---------------|
| Proposition 65 (California) | Listed - None |
|-----------------------------|---------------|

**Canada**

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| WHMIS Classification | Class D2B, Material with Other Toxic Effects,<br>Class E, Corrosive Material |
|----------------------|------------------------------------------------------------------------------|

|                   |               |
|-------------------|---------------|
| Canada (DSL/NDSL) | Listed. - DSL |
|-------------------|---------------|

|                                          |                     |
|------------------------------------------|---------------------|
| Canada Ingredient Disclosure List (CIDL) | Listed as required. |
|------------------------------------------|---------------------|

**15.2 Chemical Safety Assessment**

|                                                   |
|---------------------------------------------------|
| Corrosive / Irritant (Skin, Eye), Skin Sensitizer |
|---------------------------------------------------|

**15.3 Label Elements (EU)**

Label as Harmful / Irritant, Corrosive and Environmentally Hazardous under GHS, 1999/45/EC, 1907/2006/EC, and 1272/2008/EC. See Section 2 for full label requirements

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

## LEGEND

|                  |                                                           |       |                                                                      |
|------------------|-----------------------------------------------------------|-------|----------------------------------------------------------------------|
| ACGIH            | American Conference Of Governmental Industrial Hygienists | NA    | Not Applicable, Not Available                                        |
| AICS             | Australian Inventory Of Chemical Substances               | NIOSH | National Institute For Occupational Safety And Health                |
| ANSI             | American National Standards Institute                     | ND    | Not Determined                                                       |
| atm              | Atmosphere (Pressure Unit)                                | NFPA  | National Fire Prevention Association                                 |
| BOD              | Biological Oxygen Demand                                  | NTP   | National Toxicology Program                                          |
| CAS              | Chemical Abstracts Service                                | OC    | Open Cup                                                             |
| CC               | Closed Cup                                                | OSHA  | Occupational Safety And Health Administration                        |
| CDTA             | Chemical Drug And Trafficking Act                         | Part  | Partition                                                            |
| COC              | Cleveland Open Cup                                        | PEL   | Permissible Exposure Limits                                          |
| COD              | Chemical Oxygen Demand                                    | ppb   | Parts Per Billion                                                    |
| coeff.           | Coefficient                                               | PPE   | Personal Protective Equipment                                        |
| CFR              | Code Of Federal Regulations                               | ppm   | Parts Per Million                                                    |
| CPR              | Cardio-Pulmonary Resuscitation                            | psi   | Pounds Per Square Inch                                               |
| DEA              | Drug Enforcement Agency                                   | RCRA  | Resource Conservation And Recovery Act                               |
| DOT              | Department Of Transportation                              | RQ    | Reportable Quantity                                                  |
| DSCL             | Dangerous Substances Classification And Labeling          | RTK   | Right To Know                                                        |
| EEC              | European Economic Community                               | SARA  | Superfund Amendments And Reauthorization Act                         |
| FDA              | Food And Drug Administration                              | STEL  | Short-Term Exposure Limit                                            |
| HMIS             | Hazardous Materials Information System                    | SUSDP | Standard For The Uniform Scheduling Of Drugs And Poisons (Australia) |
| IARC             | International Agency For Research On Cancer               | TCC   | Tagliabue Closed Cup                                                 |
| IDLH             | Immediate Danger To Life Or Health                        | TDG   | Transportation Of Dangerous Goods                                    |
| kg               | Kilogram                                                  | TPQ   | Threshold Planning Quantity                                          |
| L                | Liter                                                     | TQ    | Threshold Quantity                                                   |
| LC <sub>50</sub> | Median Lethal Concentration                               | TSCA  | Toxic Substances Control Act                                         |
| LD <sub>50</sub> | Median Lethal Dose                                        | TWA   | Time-Weighted Average                                                |
| LEL              | Lower Explosive Limit                                     | UEL   | Upper Explosive Limit                                                |
| mg               | Milligram                                                 | WES   | Workplace Exposure Standard (New Zealand)                            |
| mL               | Milliliter                                                | WHMIS | Workplace Hazardous Material Information System                      |

**References:** RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicological Emergencies*, Manufacturer Information

## Risk Phrases and Safety Phrases

R20/21: Harmful by inhalation and in contact with skin.

R34: Causes burns.

R43: May cause sensitization by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S1/2: Keep locked up and out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of soap and water.

S29: Do not empty into drains.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51: Use only in well-ventilated areas.

## Hazard Statement(s) and Precautionary Statement(s)

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.



# SAFETY DATA SHEET

## SD 1473 Hardener

P264: Wash (hands and exposed skin) thoroughly after handling.  
P273: Avoid release to the environment.  
P281: Use personal protective equipment as required.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P309 + P311: If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.  
P362: Take off contaminated clothing and wash before reuse.  
P501: Dispose of contents/container to: Approved waste facility.

**Training Advice:** None

**Additional Information:** None

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