

# SAFETY DATA SHEET

# SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

 CAS Number:
 9046-10-0

 Product Name:
 AH-315

 Revision Date:
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 2.0
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Manufacturer's Name: Thames River Chemical Corp.

Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4

Emergency Phone: CHEMTREC (800) 424-9300

**Information Phone Number:** 905-681-5353 **Fax:** 905-681-5377

Product/Recommended Uses: For laboratory or industrial use only.

# **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Chronic aquatic toxicity - Category 3

Serious Eye Damage - Category 1

Skin Corrosion - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 2

### **Pictograms**





### Signal Word

Danger

### **Hazard Statements - Health**

Causes serious eye damage

Causes severe skin burns and eye damage

May cause damage to organs.

### **Hazard Statements - Environmental**

Harmful to aquatic life with long lasting effects

# **Precautionary Statements - General**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

# **Precautionary Statements - Prevention**

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly/Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

### **Precautionary Statements - Response**

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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see first-aid on the SDS).

IF exposed or concerned: Call a POISON CENTER or doctor.

#### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

# **Physical Hazards Not Otherwise Classified**

No Data Available

### **Health Hazards Not Otherwise Classified**

No Data Available

# **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Chemical Name % By Weight

0009046-10-0 Poly(propyleneglycol)diamine 100%

### **SECTION 4) FIRST-AID MEASURES**

#### Inhalation

Get medical advice/attention if you feel unwell or are concerned. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

### **Eye Contact**

Immediately call a POISON CENTER/doctor. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face.

# Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor. Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available.

# Ingestion

If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call a POISON CENTER/doctor.

### Most Important Symptoms and Effects, Both Acute and Delayed

No Data Available

# Indication of Any Immediate Medical Attention and Special Treatment Needed

No Data Available

# **SECTION 5) FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution

when applying carbon dioxide in confined spaces. Large Fire: Water spray, fog or alcohol-resistant foam.

### **Unsuitable Extinguishing Media**

Do not use straight stream of water.

### Specific Hazards in Case of Fire

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Containers may explode in fire. Fire will produce irritating and corrosive gases. Contact with metals may evolve flammable hydrogen gas. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive fumes.

### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely. Stop spill/release if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Large Fire: Dike fire-control water for later disposal; do not scatter the material

#### **Special Protective Actions**

Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

# **SECTION 6) ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedure**

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Evacuate and isolate hazard area and keep unauthorized personnel away.

### **Recommended Equipment**

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA). Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

#### **Personal Precautions**

DO NOT get on skin, eyes or clothing. Avoid breathing vapor or mist.

#### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up

Ventilate area after clean-up is complete. Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

### **SECTION 7) HANDLING AND STORAGE**

#### General

Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. This product is not intended for human or animal consumption. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored

#### **Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits. Report ventilation failures immediately. The use of local ventilation is recommended to control emissions near the source.

### **Storage Room Requirements**

Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Empty container retain residue and may be dangerous. Keep containers securely sealed when not in use. Protect containers against banging or other physical damage when storing, transferring, or using them. Procedures must be conducted in a fume hood, glove box, or other suitable containment device. Segregate from other hazard classes and store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Provide secondary containment for toxic materials. Store, handle, and use corrosive materials in well-ventilated areas. Do not store on metal shelves. Store containers in plastic tubs or trays as secondary containment. Keep the smallest amount of material in work areas. Avoid rapid temperature changes in liquid storage areas. Store at temperatures above their respective freezing/melting point. Never store corrosives above eye level. Label cabinets with "TOXIC CHEMICALS" or similar warning.

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### SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

#### **Skin Protection**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber.

#### Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

### **Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name          | CANsmg | CANsppm | CANtmg | CANtppm | OSHA<br>STEL<br>(mg/m3) | OSHA<br>STEL<br>(ppm) | OSHA<br>TWA<br>(mg/m3) | OSHA<br>TWA<br>(ppm) | OSHA<br>Carcinogen | OSHA<br>Tables (Z1,<br>Z2, Z3) | OSHA<br>Skin<br>designation | ACGIH<br>STEL<br>(mg/m3) |
|------------------------|--------|---------|--------|---------|-------------------------|-----------------------|------------------------|----------------------|--------------------|--------------------------------|-----------------------------|--------------------------|
| No applicable chemical | -      | -       | -      | -       | -                       | -                     | -                      | -                    | -                  | -                              | -                           | -                        |

| Chemical Name          | ACGIH<br>STEL<br>(ppm) | ACGIH<br>TWA<br>(mg/m3) | ACGIH<br>TWA<br>(ppm) | ACGIH<br>TLV Basis | ACGIH<br>Carcinogen | ACGIH<br>Notations |
|------------------------|------------------------|-------------------------|-----------------------|--------------------|---------------------|--------------------|
| No applicable chemical | -                      | -                       | -                     | -                  | -                   | -                  |

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical and Chemical Properties**

| Density Specific Gravity | 0.95 g/cm3<br>0.95                        |
|--------------------------|---|
| <br>Specific Gravity     | 0.55                                      |
| Appearance               | Clear, viscous liquid                     |
| Odor Description         | amine odour                               |
| Odor Threshold           | not known                                 |
| рН                       | 11.7 (20°C)                               |
| Melting Point            | -88 °C                                    |
| Low Boiling Point        | 260 °C                                    |
| High Boiling Point       | N/A                                       |
| Flash Point              | 221 °C                                    |
| Vapor Pressure           | 1 hPa (at 100°C)                          |
| Vapor Density            | not known – considerably heavier than air |
| Evaporation Rate         | not known – not considered volatile       |
| Upper Explosion Level    | N/A                                       |
| Lower Explosion Level    | N/A                                       |
| Water Solubility         | 100 g/l                                   |
| Coefficient Water/Oil    | 1.34                                      |
| Viscosity                | 10 mPas (Dynamic at 25 °C)                |
|                          |   |

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# **SECTION 10) STABILITY AND REACTIVITY**

### Reactivity

No Data Available

# Stability

Stable under normal storage and handling conditions.

### **Conditions to Avoid**

Avoid heat, sparks, flame, high temperature, freezing and contact with incompatible materials.

### **Hazardous Reactions/Polymerization**

Hazardous polymerization will not occur.

### **Incompatible Materials**

Strong bases, acids, oxidizing and reducing agents.

# **Hazardous Decomposition Products**

No Data Available

# **SECTION 11) TOXICOLOGICAL INFORMATION**

### Likely Route of Exposure

Inhalation, ingestion, skin absorption

# **Acute Toxicity**

### **Aspiration Hazard**

No Data Available

### Carcinogenicity

No Data Available

# **Germ Cell Mutagenicity**

No Data Available

### **Reproductive Toxicity**

No Data Available

# Respiratory/Skin Sensitization

No Data Available

### Serious Eye Damage/Irritation

Causes serious eye damage

# Skin Corrosion/Irritation

Causes severe skin burns and eye damage

### **Specific Target Organ Toxicity - Repeated Exposure**

No Data Available

# **Specific Target Organ Toxicity - Single Exposure**

May cause damage to organs.

# **SECTION 12) ECOLOGICAL INFORMATION**

### **Toxicity**

Harmful to aquatic life with long lasting effects

# **Mobility in Soil**

No Data Available

### **Bio-accumulative Potential**

No Data Available

# Persistence and Degradability

No Data Available

#### Other Adverse Effects

No Data Available

# **SECTION 13) DISPOSAL CONSIDERATIONS**

# **Waste Disposal**

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

# **SECTION 14) TRANSPORT INFORMATION**

### **U.S. DOT Information**

UN number: UN2735

Proper shipping name: Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s. (Poly(propyleneglycol)diamine)

Hazard class: 8
Packaging group: III

Hazardous substance (RQ): No Data Available Toxic-Inhalation Hazard: No Data Available

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

# **Transport Canada Information**

UN number: UN2735

Proper shipping name: Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s. (Poly(propyleneglycol)diamine)

Hazard class: 8
Packaging group: III

Marine Pollutant: No Data Available

Transport in bulk (according to Annex II of MARPOL 73/78): No Data Available

Note / Special Provision: Note / Special Provision

# **SECTION 15) REGULATORY INFORMATION**

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| CAS          | Chemical Name                 | % By Weight | Regulation List |
|--------------|-------------------------------|-------------|-----------------|
| 0009046-10-0 | Poly(propyleneglycol) diamine | 100%        | DSL,TSCA        |

# **SECTION 16) OTHER INFORMATION**

### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CANsmg or CANsppm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

### Version 2.0:

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