

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** IA-68170 A  
**Product Name:** Anchor Epoxy - Resin (Part A)  
**Revision Date:** May 01, 2015 **Date Printed:** Feb 09, 2017  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** Mar-flex Waterproofing & Building Products  
**Address:** 500 Business Parkway Carlisle, OH, US, 45005  
**Emergency Phone:** Chem-Trec: 1-800-424-9300  
**Information Phone Number:** 513-422-7285  
**Fax:** 513-422-7282  
**Product/Recommended Uses:**

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification:

Skin Irritation - Category 2  
Skin Sensitizer - Category 1  
Eye Irritation - Category 2

### Pictograms:



### Signal Word:

Warning

### Hazardous Statements - Health:

Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation

### 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:

Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.

### Precautionary Statements - Response:

IF ON SKIN: Wash with plenty of water.  
Specific treatment (see First-aid measures on this SDS).  
If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.  
If skin irritation or a rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Precautionary Statements - Storage:**

No precautionary statement available.

**Precautionary Statements - Disposal:**

Dispose of contents/container to disposal recycling center. Waste management should be in full compliance with federal, state and local laws.

**Hazards Not Otherwise Classified (HNOC):**

None.

**Additional hazard information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

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CAS	Chemical Name	% By Weight
0001317-65-3	CALCIUM CARBONATE	50% - 100%
0025085-99-8	DIGLYCIDYL ETHER OF BISPHENOL A	50% - 100%
0112945-52-5	SILICA, AMORPHOUS FUMED	2% - 3%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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**SECTION 4) FIRST-AID MEASURES**

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**General Advice:**

Consult a physician; show this SDS to doctor in attendance.

**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

**Eye Contact:**

Remove source of exposure or move person to fresh air. 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 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact:**

Drench the affected area immediately with plenty of water. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before re-use.

**Ingestion:**

Rinse mouth. If you feel unwell or are concerned: Get medical advice/attention.

**Most Important Symptoms and Effects, Both Acute and Delayed:**

Skin irritation, allergic reactions.

If material comes in contact with eye, possible minor temporary cornea injury may occur.

May cause nasal irritation, central nervous system depression or lung injury if inhaled.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:**

No specific antidote; treat symptomatically.

Eye wash stations and emergency showers should be available.

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**SECTION 5) FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Dry chemical, foam or carbon dioxide is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Unsuitable Extinguishing Media:**

Do not use direct water stream. Since this may cause fire to spread.

**Specific Hazards in Case of Fire:**

Combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes.

Smoke may contain particles of the original matter.

**Fire-fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. 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.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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**SECTION 6) ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedure:**

ELIMINATE all ignition sources (no smokes, flares, sparks or flames in immediate area).

Isolate hazard area and keep unnecessary people away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Do not touch or walk through spilled material.

If spilled material is cleaned up using a regulated solvent, the resulting mixture may be regulated.

**Recommended Equipment:**

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**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:**

Contain and collect spilled materials with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waster disposal contractor. Contaminated absorbent material may pose the same physical hazards as the product.

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**SECTION 7) HANDLING AND STORAGE**

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**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.

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. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers can retain residue and may be dangerous.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### 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. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### 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 and ANSI Z88.2 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	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
CALCIUM CARBONATE		[15]; [5 (a)];					1	10,5a				

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
CALCIUM CARBONATE							

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density	10.01 lb/gal
% Solids By Weight	N/A
Density VOC	0.00 lb/gal
% VOC	0.00%
Specific Gravity	1.20
Appearance	White Gel
Odor Threshold	N/A
Odor Description	Aromatic
pH	N/A
Water Solubility	Limited
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density (air = 1)	Heavier than air
Freezing Point	N/A
Melting Point	N/A

Low Boiling Point	280 °F
High Boiling Point	N/A
Auto Ignition Temp	N.A.
Decomposition Pt	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability:

The product is stable under normal storage conditions.

### Conditions to Avoid:

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

### Hazardous Reactions/Polymerization:

Will not occur

### Incompatible Materials:

Strong oxidizing agents, acids, bases and epoxy hardeners under controlled conditions.

### Hazardous Decomposition Products:

Smoke, carbon monoxide and carbon dioxide.

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## SECTION 11) TOXICOLOGICAL INFORMATION

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### Likely Route of Exposure:

Inhalation, ingestion, skin absorption, eye contact.

### Skin Corrosion/Irritation:

Causes skin irritation

### Serious Eye Damage/Irritation:

Causes serious eye irritation

### Respiratory/Skin Sensitization:

May cause an allergic skin reaction

### Germ Cell Mutagenicity:

No data available

### Carcinogenicity:

No data available

### Reproductive Toxicity:

No data available

### Specific Target Organ Toxicity - Single Exposure:

No data available

### Specific Target Organ Toxicity - Repeated Exposure:

No data available

### Aspiration Hazard:

No data available

### Acute Toxicity:

No data available

0001317-65-3            CALCIUM CARBONATE

LD50 (oral, rat): 6450 mg/kg (10; unconfirmed)

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity:**

No data available

**Persistence and Degradability:**

No data available.

**Bio-accumulative Potential:**

No data available.

**Mobility in Soil:**

Do not allow product to reach ground water, water course or sewage system.

**Other Adverse Effects:**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Waste Disposal:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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**SECTION 14) TRANSPORT INFORMATION**

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**U.S. DOT Information:**

UN number: Not Regulated  
Proper shipping name: N/A (N/A)  
Hazard class: N/A  
Packaging group: N/A  
Hazardous substance (RQ): No data available  
Toxic-Inhalation Hazard: No data available  
Marine Pollutant: No data available  
Note / Special Provision: No data available

**IMDG Information:**

UN number: Not Regulated  
Proper shipping name: N/A (N/A)  
Hazard class: N/A  
Packaging group: N/A  
Marine Pollutant: No data available  
Note / Special Provision: No data available

**IATA Information:**

UN number: Not Regulated  
Hazard class: N/A  
Packaging group: N/A  
Proper shipping name: N/A (N/A)  
Note / Special Provision: No data available

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**SECTION 15) REGULATORY INFORMATION**

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CAS	Chemical Name	% By Weight	Regulation List
0001317-65-3	CALCIUM CARBONATE	50% - 100%	SARA312,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0025085-99-8	DIGLYCIDYL ETHER OF BISPHENOL A	50% - 100%	SARA312,TSCA
0112945-52-5	SILICA, AMORPHOUS FUMED	2% - 3%	SARA312

## California Proposition 65:

In order to comply with California Proposition 65, we feel obligated to advise that some of our products may conceivably contain trace contaminants of some of the listed chemicals. While not necessarily added to our products as ingredients, some listed chemicals may be present in the raw materials from suppliers and over which we have no control. Therefore, even though some of the listed substances may not be present, a significant risk as defined by the regulations in order to comply with California law, we feel obligated to make the following statement:

WARNING: Our products may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive toxicants.

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## SECTION 16) OTHER INFORMATION

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### Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG/Canadian Transportation of Dangerous Goods; 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)- ESE 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.

### HMIS

Health	* 2
FLAMMABILITY	1
Physical Hazard	0
Personal Protection	J

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 1.0:

Revision Date: May 01, 2015

First Edition.

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## DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** IA-68170 B  
**Product Name:** Anchor Epoxy - Hardener (Part B)  
**Revision Date:** May 01, 2015 **Date Printed:** Feb 08, 2017  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** Mar-flex Waterproofing & Building Products  
**Address:** 500 Business Parkway Carlisle, OH, US, 45005  
**Emergency Phone:** Chem-Trec: 1-800-424-9300  
**Information Phone Number:** 513-422-7285  
**Fax:** 513-422-7282  
**Product/Recommended Uses:**

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## SECTION 2) HAZARDS IDENTIFICATION

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**Classification:**

- Specific Target Organ Toxicity -Single Exposure (Respiratory Tract Irritation) - Category 3
- Specific Target Organ Toxicity - Repeated Exposure - Category 2
- Skin Corrosion - Category 1B
- Serious Eye Damage - Category 1
- Respiratory Sensitizer (Solid/Liquid) - Category 1
- Skin Sensitizer - Category 1
- Reproductive Toxicity - Category 2
- Chronic aquatic toxicity - Category 2
- Corrosive to metals - Category 1
- Acute aquatic toxicity - Category 1
- Acute toxicity Dermal - Category 4
- Acute toxicity Oral - Category 4

**Pictograms:**



**Signal Word:**

Danger

**Hazardous Statements - Physical:**

May be corrosive to metals

**Hazardous Statements - Health:**

- May cause respiratory irritation
- May cause damage to organs through prolonged or repeated exposure.
- Causes severe skin burns and eye damage
- Causes serious eye damage
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause an allergic skin reaction



Suspected of damaging fertility or the unborn child.

Harmful if swallowed

Harmful in contact with skin

**Hazardous Statements - Environmental:**

Very toxic to aquatic life

Toxic 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:**

Use only outdoors or in a well-ventilated area.

Keep container tightly closed.

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

Wash thoroughly after handling.

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

[In case of inadequate ventilation] wear respiratory protection.

Contaminated work clothing should not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Keep only in original packaging.

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

**Precautionary Statements - Response:**

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

Call a POISON CENTER/doctor, if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water.

Wash contaminated clothing before reuse.

If skin irritation or a rash occurs: Get medical advice/attention.

Immediately call a POISON CENTER or doctor.

Specific treatment (see First-aid measures on this SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

IF exposed or concerned: Get medical advice/attention.

Collect spillage.

Absorb spillage to prevent material damage.

IF SWALLOWED: Call a POISON CENTER/doctor, if you feel unwell.

Rinse mouth. Do NOT induce vomiting.

**Precautionary Statements - Storage:**

Store in a well-ventilated place. Store locked up.

Store in a corrosive resistant container with a resistant inner liner

**Precautionary Statements - Disposal:**

Dispose of contents/container to disposal recycling center. Waste management should be in full compliance with federal, state and local laws.

**Hazards Not Otherwise Classified (HNOC):**

None.

**Acute toxicity of 13.08% of the mixture is unknown**

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

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CAS	Chemical Name	% By Weight
0025154-52-3	NONYLPHENOL (MIXED ISOMERS)	25% - 100%
0000111-40-0	DIETHYLENE TRIAMINE	5% - 100%
0068082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	5% - 100%
0068585-27-3	Aliphatic Amine Solution	0.0% - 75%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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**SECTION 4) FIRST-AID MEASURES**

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**Inhalation:**

Take precautions to ensure your own safety (e.g. wear appropriate protective equipment). Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

**Eye Contact:**

Remove source of exposure or move person to fresh air. 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. Immediately call a POISON CENTER or doctor.

Wash within 1 minute of contact for maximum results.

**Skin Contact:**

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

**Ingestion:**

Rinse mouth. If large amounts are swallowed, induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call a POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

**Most Important Symptoms and Effects, Both Acute and Delayed:**

If material comes in contact with eye, possible minor temporary cornea injury may occur.

If inhaled, may cause nasal irritation, central nervous system depression or lung injury.

If ingested, may cause burns to mouth and throat.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:**

No data available.

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**SECTION 5) FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media:**

Do not use direct water stream. Since this may cause fire to spread.

**Specific Hazards in Case of Fire:**

May produce hazardous fumes or hazardous decomposition products, such as carbon dioxide, carbon monoxide, hydrogen sulfide, oxides of sulfur and nitrogen.

Excessive pressure or temperature may cause explosive rupture of containers.

**Fire-fighting Procedures:**

Remove all ignition sources. Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. 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.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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**SECTION 6) ACCIDENTAL RELEASE MEASURES**

---

**Emergency Procedure:**

ELIMINATE all ignition sources (no smokes, flares, sparks or flames in immediate area).

Isolate hazard area and keep unnecessary people away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Do not touch or walk through spilled material.

If spilled material is cleaned up using a regulated solvent, the resulting mixture may be regulated.

**Recommended Equipment:**

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**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:**

Contain and collect spilled materials with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waster disposal contractor. Contaminated absorbent material may pose the same physical hazards as the product.

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**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.

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. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers can retain residue and may be dangerous.

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**SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**Eye protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**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. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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 and ANSI Z88.2 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	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
DIETHYLENE TRIAMINE								4	1			

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
DIETHYLENE TRIAMINE	4.2	1			URT & eye irr		Skin

irr - Irritation, URT - Upper respiratory tract

**SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

Density	8.93 lb/gal
% Solids By Weight	N/A
Density VOC	0.00 lb/gal
% VOC	0.00%
Specific Gravity	1.07

Appearance	Black Liquid
Odor Threshold	N/A
Odor Description	Amine
pH	N/A
Water Solubility	< 0.1%
Flammability	N/A
Flash Point Symbol	N/A
Flash Point (Setaflash Closed Cup)	234 °F
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density (air = 1)	Not Volatile
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N.A.
Decomposition Pt	N/A
Evaporation Rate	N/A

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**SECTION 10) STABILITY AND REACTIVITY**

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**Stability:**

The product is stable under normal storage conditions.

**Conditions to Avoid:**

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

**Hazardous Reactions/Polymerization:**

Will not occur.

**Incompatible Materials:**

Strong oxidizing agents, strong acids and bases.

**Hazardous Decomposition Products:**

Oxides of Carbon and Phenolics under burning conditions.

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**SECTION 11) TOXICOLOGICAL INFORMATION**

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**Likely Route of Exposure:**

Inhalation, ingestion, skin absorption, eye contact.

**Skin Corrosion/Irritation:**

Causes severe skin burns and eye damage

**Serious Eye Damage/Irritation:**

Causes serious eye damage

**Respiratory/Skin Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

**Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child.

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

May cause respiratory irritation

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

May cause damage to organs through prolonged or repeated exposure.

0000111-40-0 DIETHYLENE TRIAMINE

LD50 (oral, rat): 1080 mg/kg body weight (1)

LD50 (oral, rat): 1800 mg/kg body weight (2)

LD50 (oral, rat): 2330 mg/kg body weight (3)

LD50 (dermal, rabbit): 1046 mg/kg (1090 mL/kg) (3)

LD50 (dermal, guinea pig): 163 mg/kg (170 mL/kg) (4-day appl

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity:**

Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

**Persistence and Degradability:**

No data available.

**Bio-accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Waste Disposal:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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**SECTION 14) TRANSPORT INFORMATION**

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**U.S. DOT Information:**

UN number: UN1760

Proper shipping name: Corrosive liquids, n.o.s. (DIETHYLENE TRIAMINE, NONYLPHENOL (MIXED ISOMERS))

Hazard class: 8

Packaging group: II

Hazardous substance (RQ): No data available

Toxic-Inhalation Hazard: No data available

Marine Pollutant: No data available

Note / Special Provision: No data available

**IMDG Information:**

UN number: UN1760

Proper shipping name: Corrosive liquids, n.o.s. (DIETHYLENE TRIAMINE, NONYLPHENOL (MIXED ISOMERS))

Hazard class: 8

Packaging group: II

Marine Pollutant: No data available

Note / Special Provision: No data available

**IATA Information:**

UN number: UN1760

Hazard class: 8

Packaging group: II

Proper shipping name: Corrosive liquids, n.o.s. (DIETHYLENE TRIAMINE, NONYLPHENOL (MIXED ISOMERS))

Note / Special Provision: No data available

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**SECTION 15) REGULATORY INFORMATION**

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CAS	Chemical Name	% By Weight	Regulation List
0025154-52-3	NONYLPHENOL (MIXED ISOMERS)	25% - 100%	SARA313, SARA312, TSCA
0000111-40-0	DIETHYLENE TRIAMINE	5% - 100%	SARA312, VOC, TSCA
0068082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	5% - 100%	SARA312, TSCA, TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS

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## SECTION 16) OTHER INFORMATION

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### Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; 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)- ESE 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.

### HMIS

Health	* 3
FLAMMABILITY	1
Physical Hazard	4
Personal Protection	J

( \* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 1.0:

Revision Date: May 01, 2015

First Edition.

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