

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: STM-700

1.2. Intended Use of the Product

Use of the substance/mixture: Synthetic glass cutting/grinding fluid

1.3. Name, Address, and Telephone of the Responsible Party

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

1-800-424-9300/ +703-527-3887 CCN 1012278

For product questions only

Company

Salem Fabrication Supplies

5901 Gun Club Road

Winston-Salem, NC 27103

(336) 766-1104 (800)234-1982

www.SalemFTG.com

1.4. Emergency Telephone Number

Emergency Number : 1-800-424-9300/ +703-527-3887 CCN 1012278

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Cat. 4 Acute Toxicity-oral H302

Cat. 1 Eye Damage/Irritation H318

Cat. 2 Reproductive Toxicity H361

Cat. 3 Haz. to Aquatic Life H402

Short-term (acute) hazard

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H302 Harmful if swallowed
H318 Causes serious eye damage
H361 Suspected of damaging fertility or the unborn child
H402 Harmful to aquatic life

Precautionary Statements(GHS-US) : P203 Obtain, read, and follow all safety instructions before use.
P264+265 Wash hands thoroughly after handling. Do not touch your eyes.
P273 Do not release into the environment.
P280 Wear protective gloves/protective clothing/ eye protection/ face protection.
P302+352 IF ON SKIN: Wash with plenty of water
P305+354+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical help.
P301+317 IF SWALLOWED: Get medical help.
P330 Rinse mouth.
P362+364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents in accordance with local, state and federal regulations

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2.3. Other Hazards Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US) No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance Not applicable (Mixture)

3.2. Mixture: Organic Compounds.

Name	Product Identifier	%	Classification (GHS-US)
Boric Acid (H3B03)	(CAS) 26038-87-9	Proprietary	Rep. Tox. 1B, H360 Acute Tox. to Aqu. Life. 3, H402
Monoethanolamine (MEA)	(CAS) 141-43-5	Proprietary	Skin corr. 1B, H314 Acute Tox. 4, H302, H332, & H312 Ser. Eye Dam. 1, H318 STOT-SE. 3, H335 Chronic Tox. to Aqu. Life, 3, H412
Sodium tolyltriazole (50%)	(CAS) 64665-57-2	Proprietary	Acute Tox. - Oral 4, H302 Skin corr. 1B, H314 Ser. Eye Dam. 1, H318 Acute Tox. to Aqu. Life. 4, H402
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol (HHT)	(CAS) 4719-04-4	Proprietary	Acute Tox. - Oral 4, H302 Ser. Eye Dam. 2A, H318 Skin Sens. 1, H334

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if difficulty breathing or if product comes into contact with eyes.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

First-aid Measures After Eye Contact: Get medical attention immediately. Rinse with water immediately for several minutes. Continue rinsing during transport and keep the eye wide open while rinsing. Remove contact lenses. Protect the unharmed eye.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/Injuries: Causes irritation, nausea, eye damage/corrosion.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Will cause severe damage to eyes. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Symptoms/Injuries After Ingestion: May cause chemical burns in mouth and throat. Ingestion is harmful to health and has adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label on hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire: water (via flooding not heavy water stream), dry chemical, CO₂ or alcohol resistant foam.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Specific Hazards: During fire, gases which are hazardous to health may be formed.

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5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise extreme caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Wear protective eye/face protection, gloves/clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE); see Section 8.

Emergency Procedures: Keep unnecessary personnel away from spill/leak; remain upwind of spill/leak, if applicable. Local authorities should be advised if significant spillages cannot be contained.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Stop flow of material, if possible, without personal risk. Contain any spills with dikes or absorbents. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill for waste management.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic gases. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and after daily final contact with product. Handle empty containers with caution because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Synthetic glass machining fluid.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Occupational Exposure Limits

The following constituents are the only constituents of the product with have a TLV, PEL or other recommended exposure limit.

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Monoethanolamine (CAS 141-43-5)	TWA	6 mg/m ³
		3 ppm
Boric acid (CAS 10043-35-3)	TWA	10 mg/m ³
U.S. ACGIH Threshold Limit Values		

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Monoethanolamine (CAS 141-43-5)	TWA STEL	3 ppm 6 ppm
Boric acid (CAS 10043-35-2)	TWA STEL	2 mg/m ³ 6 mg/m ³
U.S. NIOSH: Pocket Guide to Chemical Hazards		
Monoethanolamine (CAS 141-43-5)	TWA STEL	8 mg/m ³ 3 ppm 15 mg/m ³ 6 ppm

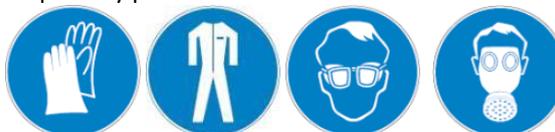
8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear liquid
Odor	: No data available
Odor Threshold	: No data available
pH	: 9.0 - 10.0 (5 % Solution)
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: <32 °F (<0 °C)
Boiling Point	: > 194 °F (>90 °C)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: 1.000
Specific gravity / density	: 8.32 lb/gal
Solubility	: Soluble in water
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

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9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions are not expected to occur under normal conditions.
- 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Thermal decomposition generates: nitrogen oxides and other potentially toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Product Information

Acute Toxicity: Not classified

Skin Corrosion/Irritation: [pH: 9.0 - 10.0 (5% Solution)]

Serious Eye Damage/Irritation: May cause serious eye irritation. [pH: 9.0 - 10.0 (5% Solution)]

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified; no component in the product is listed by any agency as a known carcinogen at the time this SDS was written/revised.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: May cause irritation of the linings of the mouth, throat, and gastrointestinal tract. May also cause gastrointestinal ulceration.

Chronic Symptoms: None known.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethanolamine (CAS 141-43-5)	1089 mg/kg (Rat)	2504 mg/kg (Rat)	LC50 > 1.3 mg/L (Rat) 6 h
Sodium tolyltriazole (50%) (CAS 64665-57-2)	920 mg/kg (Male Rat) 640 mg/kg (Female Rat)	Not Applicable	Not Applicable
Boric acid (CAS 26038-87-9)	2660 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>2.03 mg/L (Rat-4 h)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General

LC50 Fish 1	No Data Available
EC50 Daphnia 1	No Data Available

12.2. Persistence and Degradability Not established

12.3. Bio accumulative Potential

BCF fish 1	No Data Available
Log Pow	No Data Available
BCF fish 1	No Data Available

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12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials: Do NOT release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

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EPA TSCA Regulatory Flag

All components in the mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory.

15.2 US State Regulations

This Product does not contain any components with a CERCLA RQ./304 EHS RQ.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 01/18/2024

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H402	Harmful to aquatic life.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)