



Sulfurglas Hardener

SECTION 1. IDENTIFICATION

Product Identifier	Sulfurglas Hardener
Other Means of Identification	Epoxy Hardener
Product Family	Amine
Recommended Use	Mixed with another component to form a corrosion-resistant membrane.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
Emergency Phone No.	Chemtrec - Within North America, 1-800-424-9300, 24 hours Stebbins 24 Hour Contact-, 1-315-788-6624
SDS No.	040
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SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1B; Serious eye damage - Category 1; Skin sensitization - Category 1; Reproductive toxicity - Category 2; Specific target organ toxicity (single exposure) - Category 3; Aquatic hazard (Chronic) - Category 3

Label Elements



Signal Word:
Danger

Hazard Statement(s):

- H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H360 May damage the unborn child.
H361 Suspected of damaging fertility.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

- Prevention:
P202 Do not handle until all safety precautions have been read and understood.

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P260 Do not breathe dust, fume, gas, mist, vapours or spray.
P264 Wash hands and skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection. NIOSH approved air-purifying respirator with an organic vapour cartridge

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340 IF INHALED: Remove person to fresh air and keep 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.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P273 Avoid release to the environment.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Hazardous components which must be listed on the label:

Triethylenetetramine 112-24-3

May be a health hazard in confined spaces.

Hazardous to the environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Triethylenetetramine mixture	90640-67-8	97 - 99%	TETA	Polyamine curing agent
Tetraethylenepentamine mixture	112-57-2	0.5 - 1.5%	TEPA	Epoxy curing agent
Aminoethylethanolamine	111-41-1	0.5 - 1.5%	AEEA	Surfactant

Notes

Modified Cycloaliphatic Polyamine

**This ingredient is a component of the complex mixture.

Concentrations are expressed in % weight/weight.

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment).
Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer

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emergency oxygen if advised to do so by Poison Centre or doctor. If breathing has stopped, trained personnel should begin rescue breathing. If the heart has stopped, trained personnel should start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention. Clean clothing, shoes and leather goods.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Remove contact lenses, if present and easy to do. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, continue flushing during transport to hospital.

Ingestion

If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

First-aid Comments

If exposed or concerned, get medical advice or attention. Some of the first-aid procedures recommended here require advanced first-aid training.

Most Important Symptoms and Effects, Acute and Delayed

In sensitized people, exposure to a very small amount of product can cause symptoms including wheezing, difficult breathing, sneezing and runny or blocked nose. Can cause death. Symptoms can develop immediately following exposure or hours later. Repeated exposure will make the reaction worse. Aspiration hazard. If swallowed: may be drawn into the lungs if swallowed or vomited, causing severe lung damage. Death can result.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin, respiratory system, liver, kidneys, nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

Asthma, eye conditions, kidney conditions, liver conditions, respiratory conditions, skin allergies.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Large fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

Do not use water jet. Use of heavy stream of water may spread fire.

Specific Hazards Arising from the Product

Review Section 10 (Stability and Reactivity) for additional information.

In a fire, the following hazardous materials may be generated: corrosive chemicals; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; corrosive, flammable ammonia.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases.

Knock down vapours or gases with water fog or fine water spray.

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Dike and recover contaminated water for appropriate disposal.

Cool storage container with water, if exposed to fire.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

Environmental Precautions

It is good practice to prevent releases into the environment. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks:

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

Large spills or leaks:

Dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Get expert advice before treating the spilled product with other chemicals to make it less hazardous. Store recovered product in suitable containers that are: covered, corrosion-resistant. Contact emergency services and manufacturer/supplier for advice.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Avoid breathing in this product. Avoid repeated or prolonged skin contact. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Keep containers tightly closed when not in use or empty. Do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Store in an area that is: ventilated, cool, separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Organic amine mixture	1 ppm Skin				6 mg/m3 Skin	

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL® = Workplace Environmental Exposure Limit. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit.

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Exhaust directly to the outside,

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taking any necessary precautions for environmental protection. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear approved safety glasses.

When there is potential for eye exposure to Liquid, vapor or mist, wear safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Hygiene measures wash hands before breaks and at the end of a workday. When using do not eat or drink. When using do not smoke.

Suitable materials are: butyl rubber, natural rubber, neoprene rubber, nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed. Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear amber. Colour darkens on exposure to. Particle Size: Not applicable
Odour	Fishy
Odour Threshold	Not available
pH	11.5 (100% solution)
Melting Point/Freezing Point	Not available (melting); -31 °F (-35 °C) (freezing)
Boiling point/Initial boiling point	>= 530 °F (277 °C)
Boiling Range	Not applicable
Flash Point	>= 298 °F (148 °C)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	9.5% (upper); 1% (lower)
Vapour Pressure	< 0.01 kPa (0.08 mm Hg)
Vapour Density (air = 1)	5.0
Relative Density (water = 1)	~ 0.98 at 68 °F (20 °C)
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	561 °F (294 °C)
Decomposition Temperature	>= 530 °F (277 °C)
Viscosity	Not available (kinematic); 20 - 23 mPa.s at 77 °F (25 °C) (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Bulk Density	63.62 lb/ft ³ (1019.10 kg/m ³)
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not applicable
Vapour Pressure at 50 deg C	Not available

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Saturated Vapour Concentration Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Reacts in the presence of metals, acidic conditions (low pH), alkaline conditions (high pH), oxidizing agents.

Heating can release hazardous gases.

Conditions to Avoid

Prolonged exposure to high temperatures. Avoid long term exposure to vapours. Incompatible materials. Temperatures above 298.0 °F (147.8 °C)

Incompatible Materials

Releases excessive heat on contact with: water. Avoid: oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid), aldehydes (e.g. acetaldehyde), alcohols (e.g. ethanol), aromatic hydrocarbons (e.g. toluene), ketones (e.g. acetone), nitriles (e.g. butyronitrile), peat moss, saw dust, metals (e.g. aluminum).
Copper, copper alloys (e.g. brass and/or bronze).

Hazardous Decomposition Products

Reactive chemicals; corrosive, flammable ammonia; oxygen (a strong oxidizer). volatile amines.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin absorption; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Organic amine mixture	Not available	1,716 mg/kg (rat)	1,465 mg/kg (rabbit)

LC50 (Inhalation)

Exposure may cause irritation to respiratory tract.

Inhalation of aerosols may cause irritation to mucous membranes.

Thermal decomposition can lead to release of irritating gases and vapours.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

LD50 (Oral)

Triethylenetetramine

Acute oral toxicity : LD50: > 300 - 2,000 mg/kg

Species: rat

Swallowing may result in burns to the throat and mouth.

Aspiration hazard high.

LD50 (Dermal)

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Triethylenetetramine
Acute dermal toxicity : LD50: > 1,000 - 2,000 mg/kg
Species: rabbit

Harmful absorption levels associated with prolonged skin exposure.

Symptoms may be delayed.

Harmful in contact with skin.

May cause an allergic skin reaction.

Causes severe skin burns.

Causes serious eye damage.

Skin Corrosion/Irritation

Human experience shows moderate or severe irritation. Skin Sensitization: repeated or prolonged exposure can irritate or burn the skin.

Serious Eye Damage/Irritation

May irritate or burn the eyes. Permanent damage including blindness may result. The vapour also irritates the eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Causes severe nose and throat irritation.

Skin Absorption

May be harmful Symptoms may include redness, rash, swelling and itching.

Ingestion

If small amounts are swallowed may cause harmful effects on the liver.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited. May cause lung damage if aspirated based on existing animal tests and physical and chemical properties.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Following skin contact and/or if swallowed: harmful effects on the liver. Liver function tests may show abnormal results.

Respiratory and/or Skin Sensitization

Human experience shows severe asthma or asthma-like symptoms (respiratory sensitization) in rare cases following exposure at work. In sensitized people, exposure to a very small amount of product can cause symptoms including wheezing, difficult breathing, sneezing and runny or blocked nose. Can cause death. Symptoms can develop immediately following exposure or hours later. Repeated exposure will make the reaction worse. In sensitized people, contact with a very small amount of product can cause an allergic reaction. Symptoms include redness, rash, itching and swelling. This reaction can spread from the hands or arms to the face and body. Repeated exposure will make the reaction worse.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Organic amine mixture	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists.

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

May harm the unborn child.

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Sexual Function and Fertility

May cause effects on sexual function and/or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Causes mutagenicity in in vitro tests.

Interactive Effects

No information was located.

Other Information

Aspiration hazard

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life, based on acute toxicity tests. Can cause sharp increase in pH value in aquatic environments. (Triethylenetetramine mixture)

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 10 - 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae : ErC50: > 10 - 100 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae).

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Organic amine mixture	31.1 mg/L (Daphnia magna (water flea); 48-hour)	Not available		20 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour; semi-static)

Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Organic amine mixture	Not available	Not available	1.9 mg/L (Daphnia magna (water flea); 21-day; semi-static)	Not available

Persistence and Degradability

Does not degrade rapidly based on half-life measurements.

Bioaccumulative Potential

Bioaccumulative potential is low. Bio-concentration factor (BCF): <100.

Mobility in Soil

If released into the environment, this product can move rapidly through the soil.

Other Adverse Effects

PBT and vPvB assessment :

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The product should not be allowed to enter drains, water courses or the soil.

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	UN2259	triethylenetetramine	8	II
IMO (Marine)	UN2259	triethylenetetramine	8	II
IATA (Air)	UN2259	triethylenetetramine	8	II
Canadian TDG	UN2259	triethylenetetramine	8	II

Environmental Hazards Not applicable

Special Precautions Please note: Packing Instruction
(Cargo aircraft) 855

Packing Instruction
(Passenger aircraft) 851

Transport in Bulk according to International Maritime Organization Instruments

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

HMIS classifications:

Health 3

Flammability 1

Physical Hazard 0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

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US Federal
HCS Classification
Hazardous Substance

CERCLA:

This material does not contain any components with a CERCLA RQ.

SARA Title III - Section 302:

This material does not contain any components with a section 302 EHS TPQ.

SARA 304: Emergency release notification

This material does not contain any components with a section 304 EHS RQ.

SARA Title III - Section 311/312:

Acute Health Hazard Chronic Health Hazard.

SARA Title III - Section 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

State Regulations

California Proposition 65: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania Right To Know:

Chemical Listed: Hazardous Substance. (Triethylenetetramine mixture). (Tetraethylenepentamine mixture). (Aminoethylethanolamine)

Custom Regulatory 1

CH INV : YES. The formulation contains substances listed on the Swiss Inventory

TSCA : YES. All chemical substances in this product are either listed on the

TSCA Inventory or in compliance with a TSCA Inventory exemption.

DSL : YES. All components of this product are on the Canadian DSL.

AICS : YES. On the inventory, or in compliance with the inventory

NZIoC : YES. On the inventory, or in compliance with the inventory

ENCS : YES. On the inventory, or in compliance with the inventory

ISHL : YES. On the inventory, or in compliance with the inventory

KECI : YES. On the inventory, or in compliance with the inventory

PICCS : YES. On the inventory, or in compliance with the inventory

IECSC : YES. On the inventory, or in compliance with the inventor

CH INV Switzerland. New notified substances and declared preparations

TSCA United States TSCA Inventory

DSL Canadian Domestic Substances List (DSL)

AICS Australia Inventory of Chemical Substances (AICS)

NZIoC New Zealand. Inventory of Chemical Substances

ENCS Japan. ENCS - Existing and New Chemical Substances Inventory

ISHL Japan. ISHL - Inventory of Chemical Substances

KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Philippines Inventory of Chemicals and Chemical Substances (PICCS)

IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 3	Flammability - 1	Instability - 0
	Based on	Triethylenetetramine mixture	
SDS Prepared By	B.E.R		

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Revision Indicators	Revision 5 Updated: . Toxicological, Ecological, and Exposure Controls/Personal Protection Information
Key to Abbreviations	C.A.S.# SECTION 15. REGULATORY INFORMATION Other Related Literature; Additional Information; reviewed and approved ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association OSHA = US Occupational Safety and Health Administration NTP = National Toxicology Program NIOSH = National Institute for Occupational Safety and Health
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Disclaimer	NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.

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