



**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Trade name : EH-B  
Product form : Mixture  
Product code : 30-00054

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Emulsion Hardener Component

**1.3. Details of the supplier of the safety data sheet**

RhinoTech  
2955 Lone Oak Circle  
Eagan, MN 55121  
651-686-5027

**1.4. Emergency telephone number**

Emergency number : ChemTel, Inc. 800-255-3924, International 813-248-0585

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

<u>Hazard Code</u>	<u>Hazard Class</u>	<u>Hazard Category</u>
H316	Skin corrosion/irritation	3
H317	Sensitisation, skin	1
H341	Germ cell mutagenicity	2

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES

**2.2. Label elements**

**GHS-US labeling**

Hazard pictograms (GHS-US)



Signal Word (GHS-US): **Warning**

Hazard Statements (GHS-US):

- H316: Causes mild skin irritation
- H317: May cause allergic skin reaction
- H341: Suspected of causing genetic defects

Precautionary statements (GHS-US):

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P261: Avoid breathing dust/fumes/gas/mist/spray
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P302+352: IF ON SKIN: Wash with soap and water
- P333+313: If skin irritation or a rash occurs: Get medical advice/attention
- P321: Specific treatment (see SECTION 4)
- P363: Wash contaminated clothing before reuse
- P308+313: IF exposed or concerned: Get medical advice/attention
- P405: Store locked up
- P501: Dispose of contents/container in accordance with local, state and federal authorities.

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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	CAS #	%
Glyoxal	107-22-2	1 - 5

## 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 : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Use artificial respiration and oxygen if needed. If irritation persists, seek medical attention.
- First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). . If irritation persists, seek medical attention.
- First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). . If irritation persists, seek medical attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.

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

- Symptoms/injuries : Causes skin irritation. May cause allergic skin reaction. Suspected of causing genetic defects.
- Symptoms/injuries after inhalation : May cause headache, nausea and irritation of respiratory tract.
- Symptoms/injuries after skin contact : May cause skin irritation. May cause allergic skin reaction
- Symptoms/injuries after eye contact : May causes eye irritation.
- Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed.
- Chronic symptoms : No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Advice for firefighters

- Firefighting instructions : Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Approved supplied-air respirator, in case of emergency. Wear suitable protective clothing, gloves and eye or face protection.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear proper safety equipment including chemically resistant gloves and safety glasses or goggles. Use with adequate ventilation. Wash thoroughly after handling. Do not get in eyes. Avoid prolonged or repeated contact with skin. Do not breathe mist or vapor. Do not swallow.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : heat sources. Keep container tightly closed. Store between 50 F & 100 F.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Glyoxal, CAS# 107-22-2			
OSHA PEL (TWA) ppm - if units not stated	OSHA PEL (STEL) ppm - if units not stated	OSHA PEL (Ceiling) ppm - if units not stated	ACGIH-TLV
Not Established	Not Established	Not Established	0.1 mg/m <sup>3</sup> Inhalable fraction and vapor

### 8.2. Exposure controls

Personal protective equipment : Face shield. Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.

Hand protection : Chemical resistant gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear long sleeves. Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. If handling results in dust, mist, or aerosols, special ventilation may be required to avoid exceeding exposure limits for nuisance or oil mist particles.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Color	: No data available
Odor	: No fragrance.
Odor Threshold	: No data available
pH	: No data
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Self 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	: 1.02

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Solubility	: Complete solubility in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Sulfur oxides. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Oral LD50: > 2,000 mg/kg (rat) Calculated

Dermal LD50: > 2,000 mg/kg (rabbit) Calculated

Inhalation LC50: > 5 mg/l Dusts & Mists (rat) Calculated

Glyoxal, CAS# 107-22-2		
Oral LD50 rat	Dermal LD50 rabbit	Inhalation LC50
3300 mg/m3	No data	2.44 mg/l / 4hr

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: May causes eye irritation.
Respiratory or skin sensitization	: May cause allergic skin reaction
Germ cell mutagenicity	: Glyoxal, CAS#107-22-2, Genetic toxicity: The substance was mutagenic in various test systems with microorganisms, mammalian cell culture and mammals.
Carcinogenicity	: Not classified
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 cause headache, nausea and irritation of respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation. May cause allergic skin reaction
Symptoms/injuries after eye contact	: May causes eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed.
Chronic symptoms	: No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No Data

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### 12.2. Persistence and degradability

No Data

### 12.3. Bioaccumulative potential

No Data

### 12.4. Mobility in soil

No Data

### 12.5. Other adverse effects

No Data

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

## SECTION 14: Transport information

### 14.1. UN number, proper shipping name, class and packaging group.:

Domestic Ground Shipments

Not DOT Regulated

### 14.2. Additional information

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

**TSCA Inventory:** The components of this product are listed.

**SARA Section 311/312, Hazard Category (40CFR 370.2):** Acute and Chronic health hazard.

**SARA Section 313, Toxic Release Reporting (40CFR Part 372):** No listed substance over 1.0% or over 0.1% that are also carcinogenic.

**SARA Section 302, EHS Emergency Planning (40CFR Part 355):** No listed substance known over 1.0%.

**SARA Section 304, EHS Release Reporting (40CFR Part 355):** No listed substance known over 1.0%.

**CERCLA Section 102-103 HS Release Reporting (40 CFR par302-102a):** No listed substance known over 1.0%.

### 15.2. International regulations

No Data

### 15.2.2. National regulations

No Data

### 15.3. US State regulations

#### California Prop. 65:

Approximate quantities by weight

Formaldehyde CAS#50-00-0 / Cancer

< 0.0000009%

## SECTION 16: Other information

Other information :  
: None.

NFPA health hazard : 2

NFPA fire hazard : 1

NFPA reactivity : 0

### HMIS III Rating

Health : 2

Flammability : 1

Physical : 0

Personal Protection :

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## Safety Data Sheet

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