



**HI-VALLEY CHEMICAL**  
LABORATORY PRODUCTS

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**SAFETY DATA SHEET**

Hi Valley Chemical

**Triethanolamine**

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Triethanolamine  
**SDS Number:** R-033  
**Revision Date:** 10/25/2016  
**Version:** 1  
**CAS Number:** 102-71-6  
**Chemical Formula:** C6H15NO3  
**Supplier Details:** High Valley Products, Inc.  
 1134 West 850 North  
 Centerville, Utah 84014  
**Emergency:** PERS: 800-633-8253  
**Phone:** 801-295-9591  
**Email:** sales@hvchemical.com  
**Web:** www.hvchemical.com

**2 HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**  
 No GHS Classifications Indicated

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **NONE**

No GHS pictograms indicated for this product

**GHS Hazard Statements:**

No GHS hazards statements indicated

**GHS Precautionary Statements:**

No GHS precautionary statements indicated

**3 COMPOSITION/INFORMATION OF INGREDIENTS**

**Ingredients:**

| Cas#     | %   | Chemical Name   |
|----------|-----|-----------------|
| 102-71-6 | 99% | Triethanolamine |

**4 FIRST AID MEASURES**

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Wash with soap and water.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
**Ingestion:** Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5 FIRE FIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
No data available

Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
No data

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## ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions:

Do not let product enter drains.

### Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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## HANDLING AND STORAGE

### Handling Precautions:

Avoid breathing vapors or mist.

### Storage Requirements:

Keep container tightly closed. Store in cool/dry area.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment:

Triethanolamine- cas#:(102-71-6) [99%]

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nature latex/chloroprene Minimum layer thickness: 0.6 mm Break through time: 480 min Material tested:Lapren (KCL 706 / Aldrich Z677558, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Triethanolamine- cas#:(102-71-6) [99%]

Components with workplace control parameters

TWA 5 mg/m3 USA. ACGIH Threshold Limit Values  
(TLV)

Skin & eye irritation

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### PHYSICAL AND CHEMICAL PROPERTIES

|                               |   |
|-------------------------------|---|
| <b>Appearance:</b>            | Viscous   |
| <b>Physical State:</b>        | Liquid  |
| <b>Odor:</b>                  | No data available   |
| <b>Odor Threshold:</b>        | No data available   |
| <b>Solubility:</b>            | No data available   |
| <b>Spec Grav./Density:</b>    | 1.124   |
| <b>Viscosity:</b>             | No data available   |
| <b>Boiling Point:</b>         | No data available   |
| <b>Freezing/Melting Pt.:</b>  | 190 - 193 °C (374 - 379 °F)                                       |
| <b>Flash Point:</b>           | 179 °C (354 °F) - closed cup                                      |
| <b>Partition Coefficient:</b> | No data available   |
| <b>Vapor Pressure:</b>        | No data available   |
| <b>Vapor Density:</b>         | 5.15  |
| <b>pH:</b>                    | 10.5 - 11.5   |
| <b>Evap. Rate:</b>            | No data available   |
| <b>Auto-Ignition Temp:</b>    | No data available   |
| <b>Decomp Temp:</b>           | No data available   |
| <b>UFL/LFL:</b>               | Upper explosion limit: 8.5 %(V) / Lower explosion limit: 1.3 %(V) |

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### STABILITY AND REACTIVITY

|                                 |  |
|---------------------------------|--|
| <b>Reactivity:</b>              | No data available                            |
| <b>Chemical Stability:</b>      | Stable under recommended storage conditions. |
| <b>Conditions to Avoid:</b>     | Air exposure to moisture. Light              |
| <b>Materials to Avoid:</b>      | Strong Acids; Strong Oxidizing Agents.       |
| <b>Hazardous Decomposition:</b> | No data available                            |

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### TOXICOLOGICAL INFORMATION

Triethanolamine- cas#:(102-71-6) [99%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - mouse - 5,846 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. Diarrhoea Kidney, Ureter, Bladder:Other changes.

LD50 Oral - rat - 5,530 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Diarrhoea Skin and Appendages: Other: Hair.

LD50 Oral - rabbit - 2,200 mg/kg

LD50 Oral - guinea pig - 2,200 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 22.5 g/kg

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,2,2-Nitrioltriethanol)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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

Additional Information:

RTECS: KL9275000

Kidney injury may occur., Dermatitis

Liver - Irregularities - Based on Human Evidence

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## **ECOLOGICAL INFORMATION**

Triethanolamine- cas#:(102-71-6) [99%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 450 - 1,000 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia* - 609.98 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Biodegradability Result: 96 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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## **DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

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## **TRANSPORT INFORMATION**

Non DOT regulated

Component (CAS#) [%] - CODES

Triethanolamine- (102-71-6) [n/a%] HAP, MASS, PA, TSCA, TXAIR

Regulatory CODE Descriptions

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

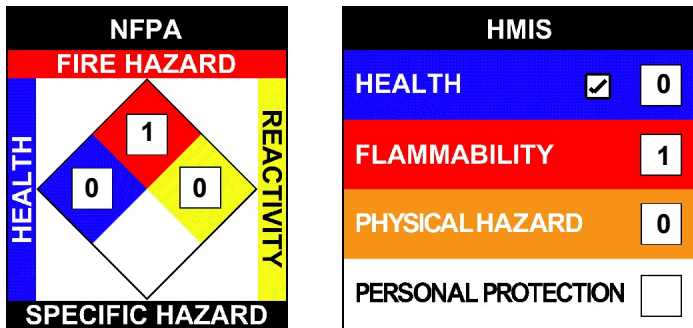
PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

NFPA: Health = 0, Fire = 1, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 0(Chronic), Fire = 1, Physical Hazard = 0



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