

Safety Data Sheet
Monoethanolamine, 85%

SECTION I - IDENTIFICATION



Ksolv

K-Solv Chemicals, LLC
9660 Katy Freeway
Houston, TX 77055
(866) 576-5846
Chemtrec :..... (800) 424-9300

Product Number KS0171
Product Name Monoethanolamine, 85%
Synonyms
CAS Number Multiple
Date Prepared 8/26/2015
Revision Number 8/26/2015
Recommended Use Laboratory chemicals, Synthesis of substances

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids	Category 4
Acute Toxicity, Oral	Category 4
Acute Toxicity, Dermal	Category 4
Skin Corrosion/Irritation	Category 1A, B, C
Serious Eye Damage/Eye Irritation	Category 1
Acute Toxicity, Inhalation	Category 4
Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3

DANGER!

GHS LABEL:



Hazard Statements

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H402	Harmful to aquatic life

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H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition, sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated are.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+352 IF ON SKIN: Wash with plenty of water/...

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower.

p304+340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or a doctor/physician if you feel unwell.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P362+364 Take off immediately all contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use(See Section 5 of SDS) to extinguish.

P403 Store in a well ventilated place.

P405 Store locked up.

P501 Dispose of contents/container to: local/regional/national/international regulations.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Monoethanolamine	141-43-5	85%	3 ppm	3 ppm

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Water	7732-18-5	15%	Not Established	Not Established
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SECTION IV - FIRST AID MEASURES

- Contact with eyes:** Wash immediately and continuously with flowing water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
- Skin contact:** Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use.
- Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.
- Ingestion:** If swallowed. Wash out mouth thoroughly with water and give plenty of water to drink. Give large quantities of water. Never give anything by mouth to an unconscious person.
If vomiting occurs, keep head below hips to prevent aspiration into lungs.

SECTION V - FIREFIGHTING MEASURES

- Suitable Extinguishing Media:** Carbon Dioxide, dry-chemical or universal type spray foam.
- Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.
- Unusual Fire Fighting Hazards:** Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas.

SECTION VI - ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Keep all sources of ignition and hot metal surfaces away from spill or release.
Any/all persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill/leak. Restrict access to area until the spill has been cleaned up.
- Environmental Precautions:** Prevent liquid from entering drains, sewers or waterways.
Contain spill if it can be done with minimal risk.
Notify proper authorities.
- Methods for Cleaning Up:** Use proper personal protective equipment. Isolate and secure the area and follow the appropriate emergency guidelines. If local high concentration of airborne mist occurs, dilute spill with plenty of water and ventilate to disperse mist laden air. Sweep up spill and reclaim or place in a covered waste disposal container. Report spill to proper authorities

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Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

SECTION VII - HANDLING AND STORAGE

- Handling and Storage:**
- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
 - Keep containers tightly closed in a dry and well-ventilated place.
 - Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
 - NFPA Class III B storage.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Monoethanolamine	141-43-5	3 ppm	3 ppm
Water	7732-18-5	Not Established	Not Established

Engineering Controls: Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

Monitoring: Follow accepted work practices for handling a flammable material.

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

Skin Protection: Wear safety glasses with un-perforated side shields.
Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Liquid, clear, colorless
Odor	amine-like
pH@25°C	12.1 at 100 g/l at 20 °C (68 °F)
Melting/Freezing Point	10 - 11 °C (50 - 52 °F) - lit.
Flashpoint	91 °C (196 °F) - closed cup
Specific Gravity	0.966
Solubility	completely miscible
Auto-Ignition Temperature	424 °C (795 °F)
Decomposition Temperature	No data available
VOC Content	Not Determined
Odor Threshold	No data available
Boiling Range	69 - 70 °C (156 - 158 °F) at 13 hPa (10 mmHg)
Evaporation Point	No data available
Flammable Limits - Upper	17 %(V)
Flammable Limits - Lower	2.5 %(V)
Vapor Pressure	0.3 hPa (0.2 mmHg) at 20 °C (68 °F)
Vapor Density (Air=1)	2.11
Viscosity	No data available

SECTION X - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Acids.

Hazardous Decomposition/Byproducts:

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None known.

Incompatibilities: Strong acids and oxidizers
Nitries and Nitrates containing compounds.

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SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Routes of entry: inhalation, skin & eyes, ingestion, skin absorption

Inhalation: May be irritating to mucous membranes and respiratory tract
Chronic overexposure may result in irritation or tissue damage and an increased susceptibility to respiratory illness, and permanent lung damage.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury.
Will cause severe burns on contact and will damage the eyes.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.
redness, itching or swelling
Solid or liquid contact can cause severe burns and deep ulcerations.

Ingestion: Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.
Can cause severe burns and complete tissue damage.
Low degree of toxicity by ingestion.

Acute Toxicity Value: See Health Hazards below.

Chronic (Long Term) Effects: See Health Hazards above.

Toxicity:

Component Name	LD50	LC50
Monoethanolamine	Oral - Rat - 1,720 mg/kg; Dermal - Rabbit - 1,015 mg/kg	Not Established
Water	Not Established	Not Established

Reproductive Effects Not Applicable

Teratogenicity Not Applicable

Mutagenicity Not Applicable

Embryotoxicity Not Applicable

Sensitization to Product Not Applicable

Synergistic Products Not Applicable

Carcinogenicity Not Listed as a Carcinogen

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SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: No data available.

BioAccumulation: No data available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Any release equal to or exceeding the RQ (if applicable) must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Ethanolamine

Contains:

Hazard Class and Label: 8

Identification Number: UN 2491

Packaging Group: III

Other Shipping Info:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X	X	N/A	N/A

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

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No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION
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HMIS Health: 2
HMIS Flammability: 3
HMIS Reactivity: 0

Additional:

Specification Information

Department issuing data sheet: Compliance Department

Email address: plant@ksolv.com

Training necessary: Training is required per the Occupational Safety and Health Administration (OSHA) Hazard Communication 29 CFR 1910.1200.

Disclaimer:

****HMIS rating** involve data and interpretations that vary from company to company. They are intended only for rapid identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this product, all the information contained in this SD must be considered.

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