



Triethanolamine 85% (Non-Reg)

SECTION 1: Identification

Product Identifier

Product Name TRIETHANOLAMINE 85% (NON-REG)

Other means of identification

Synonyms: TEA
SDS number: 000100000173

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Supplier Details

Name Alchatek
Address 4508 Bibb Blvd
Tucker, GA 30084

Telephone (404) 618-0438

Emergency Phone Numbers

Call CHEMTREC Day or Night
1-800-424-9300
+1 703-527-3887

SECTION 2. Hazard(s) identification

Hazard classification

Health hazards
Carcinogenicity Category 2

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Label elements

Hazard symbol



Signal word

Warning

Hazard statement

May be harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

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

Causes damage to organs through prolonged or repeated exposure.

Suspected of causing cancer.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response

If exposed or concerned: Get medical advice/attention.

Storage

Store in a closed container. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store locked up.

Disposal

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

None.

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SECTION 3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Triethanolamine		102-71-6	85%
Diethanolamine		111-42-2	15%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments: The components are not hazardous or are below required disclosure limits.

SECTION 4. First-aid measures

Ingestion: Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Most important symptoms/effects, acute and delayed Symptoms:
No data available.

Indication of immediate medical attention and special treatment needed Treatment:
No data available.

SECTION 5. Fire-fighting measures

General fire hazards: Wear self-contained breathing apparatus and protective clothing.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use: Alcohol-resistant foam, powder, carbon dioxide, water spray. Water in large amounts.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical:

Fire or excessive heat may result in rupture of container due to release of significant amounts of gases.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment for fire-fighters:

Use water spray to keep fire-exposed containers cool. Avoid water in straight hose stream; will scatter and spread fire.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

Methods and material for containment and cleaning up:

Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

Environmental precautions:

Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

SECTION 7. Handling and storage

Precautions for safe handling:

Flammable/combustible - Keep away from oxidizers, heat and flames.

Avoid contact with skin and eyes. Avoid breathing mists or vapors. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a dry place.

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SECTION 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
Triethanolamine	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2013)
	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	5 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Diethanolamine- Inhalable fraction and vapor.	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values (03 2013)
Diethanolamine	REL	3 ppm 15 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	3 ppm 15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	3 ppm 15 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	10 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	2 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	0.2 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	0.46 ppm 2 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

Appropriate engineering controls

Adequate ventilation should be provided so that exposure limits are not exceeded.

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Individual protection measures, such as personal protective equipment

General information:	No data available.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection:	Chemical resistant gloves.
Other:	No data available.
Respiratory protection:	In case of inadequate ventilation, use respiratory protection.
Hygiene measures:	Observe good industrial hygiene practices.

SECTION 9. Physical and chemical properties

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	15 °C
Initial boiling point and boiling range:	310 °C
Flash Point:	194 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.

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Decomposition temperature: No data available.
Viscosity: No data available.

SECTION 10. Stability and reactivity

Reactivity: No data available.
Chemical stability: No data available.
Possibility of hazardous reactions: No data available.
Conditions to avoid: No data available.
Incompatible materials: No data available.
Hazardous decomposition products: No data available.

SECTION 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.
Inhalation: No data available.
Skin contact: No data available.
Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: ATEmix (): 10,666.666667 mg/kg
Dermal Product: ATEmix (): 2,000 mg/kg
Inhalation Product: No data available.

Specified substance(s):

Diethanolamine LC 0 (Rat,) : 0.2 mg/l (, No) 2 (reliable with restrictions)
Repeated dose toxicity Product: No data available.
Skin corrosion/irritation Product: No data available.
Serious eye damage/eye irritation Product: No data available.
Respiratory or skin sensitization Product: No data available.
Carcinogenicity Product: No data available.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Diethanolamine Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ cell mutagenicity

In vitro Product: No data available.

In vivo Product: No data available.

Reproductive toxicity Product:

No data available.

Specific target organ toxicity - single exposure Product:

No data available.

Specific target organ toxicity - repeated exposure Product:

No data available.

Aspiration hazard Product: No data available.

Other effects: No data available.

SECTION 12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: No data available.

Specified substance(s):

Triethanolamine LC 50 (Carp (Leuciscus idus melanotus), 48 h): > 10,000 mg/l Mortality

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Diethanolamine	LC 50 (Western mosquitofish (<i>Gambusia affinis</i>), 48 h): 1,550 mg/l Mortality LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h): 1,200 - 1,580 mg/l Mortality LC 50 (Western mosquitofish (<i>Gambusia affinis</i>), 96 h): 1,400 mg/l Mortality LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h): 1,360 - 1,630 mg/l Mortality LC 50 (Fathead minnow (<i>Pimephales promelas</i>), 96 h): 1,300 - 1,990 mg/l Mortality
Aquatic invertebrates Product:	No data available.
Specified substance(s):	
Triethanolamine	EC 50 (Water flea (<i>Ceriodaphnia dubia</i>), 48 h): 565.2 - 658.3 mg/l Intoxication
Diethanolamine	LC 50 (Water flea (<i>Daphnia magna</i>), 48 h): 44 - 68 mg/l Mortality
Chronic hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and degradability Biodegradation Product:	No data available.
BOD/COD ratio Product:	No data available.
Bioaccumulative potential	No data available.
Bioconcentration factor (BCF) Product:	
Partition coefficient n-octanol / water (log Kow) Product:	No data available.
Specified substance(s):	
Triethanolamine	Log Kow: -1.00
Diethanolamine	Log Kow: -1.43
Mobility in soil:	No data available.

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Known or predicted distribution to environmental compartments

2,2',2''-Nitrilotriethanol No data available.
2,2'-Iminodiethanol No data available.

SECTION 13. Disposal considerations

Disposal instructions: No data available.
Contaminated packaging: No data available.

SECTION 14. Transport information

Not regulated for transportation in containers less than RQ amount.

SECTION 15. Regulatory information

US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Diethanolamine Reportable quantity: 100 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories
Not listed.

SARA 302 Extremely hazardous substance
None present or none present in regulated quantities.

SARA 304 Emergency release notification

Table with 2 columns: Chemical identity, RQ. Row 1: Diethanolamine, 100 lbs.

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Inventory Status:

Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	Not in compliance with the inventory.
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

SECTION 16. Other information

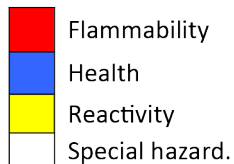
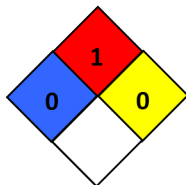
HMIS Hazard ID

Health	*	1
Flammability		1
Physical hazards		1
PERSONAL PROTECTION	K	

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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Further information/disclaimer

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