

MATERIAL SAFETY DATA SHEET**Company Details**

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1. Product and Company Identification:

<u>Trade / Commercial Name</u>	ULTRATET		
<u>Chemical Name</u>	ethanolamine or ethanolamine solution		
<u>Formula</u>	Oxytetracycline , Monoethanolamine		
<u>Chemical Family</u>			
<u>Synonyms</u>	2-aminoethanol, monoethanolamine, beta-aminoethanol, beta-aminoethyl alcohol, ethylolamine, glyci		
<u>Un No</u>	2491	<u>Hazchem Code</u>	2r
<u>ERG No.</u>	153	<u>EAC</u>	60

2. Hazards Identification:

Corrosive
Combustible
Contact with substance may cause severe damage: to skin, to eyes.
Effects of contact or inhalation may be delayed.
Fire may produce irritating, corrosive and/or toxic gases.
Runoff from fire control or dilution water may cause pollution.

3. Composition:

Hazardous Components Ethanolamine or Ethanolamine solution

4. First Aid Measures

<u>First Aid Skin</u>	Remove & isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. Flush body with plenty of water for at least 20 minutes. Keep warm and quiet.
<u>First Aid Eyes</u>	Flush eyes with water for 20 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Do not induce vomiting. Seek medical assistance.
<u>First Aid Inhalation</u>	Move victim to fresh air. If not breathing give artificial respiration. Do not use mouth-to-mouth, if victim has inhaled or ingested the substance; induce artificial respiration with the aid of a pocket mask with a one-way valve. If breathing of victim is difficult administer oxygen. Effects of exposure may be delayed.

5. Fire Fighting Measures

Small Fires: Dry chemical, CO₂ or water spray.
Large Fires: Dry chemical, CO₂, alcohol-resistant foam or water spray.
Move containers from fire area if you can do it without risk.
Dike fire control water for later disposal; do not scatter the material.
Fire involving Tanks or Bulk Containers: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
Do not get water inside containers. ALWAYS stay away from the ends of tanks.
Cool containers with flooding quantities of water until well after fire is out.
Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
Isolate spill or leak area immediately for at least 25 to 50 metres (80 to 160 feet) in all directions.
Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.
Wear positive pressure self-contained breathing apparatus (SCBA).

MATERIAL SAFETY DATA SHEET

Wear chemical protective clothing which is specifically recommended by the manufacturer.
 Structural firefighters' protective clothing is recommended for fire situations ONLY; it is not effective in spill situations.
 If ROAD OR RAIL TANKER is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions;
 also, consider initial evacuation for 800 metres (1/2 mile) in all directions.

6. Accidental Release Measures

Full protective clothing including breathing apparatus
PRECAUTIONS:
 Restrict access to area.
 Provide adequate protective equipment and ventilation.
 Remove sources of heat and flame.
 Notify occupational and environmental authorities
SPILL OR LEAK:
 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
 Stop leak if you can do it without risk.
 Prevent entry into waterways, sewers, basements or confined areas.
 Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
DO NOT GET WATER INSIDE CONTAINERS.

7. Handling And Storage

Separation of at least 3M from the following classes is recommended.
 Flammable Liquids Flammable Solids
 Spontaneously Combustibles Poison
 Fire separation of at least 5M or 4Hr fire resistant wall
 from the following classes is recommended.
 Flammable Gases Dangerous When Wet
 Oxidizing Agents Organic Peroxides
 Storage in the same room or space is prohibited with the following classes:
 The rooms or spaces should be at least 10M apart.
 Explosives Radioactive

8. Exposure Controls/Personal Protection

<u>Occupational Exposure Limits</u>	T	W	A	OEL-RL	SHORT TERM	OEL-RL	
				PPMa)	MG/M3b)	PPMa)	MG/M3b)
				3	8	500	1500

Controls
 The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.
 The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.
 Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.
 Supply sufficient replacement air to make up for air removed.
 Have a safety shower/eye wash fountain readily available in the immediate work area

Personal Protection
 If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including Safety glasses, gloves, adequate ventilation.
 Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties

MATERIAL SAFETY DATA SHEET

Colourless liquid with an odour of ammonia

Melting point: 10 - 12 C

Boiling point: 170 C

Vapour density: 2.1 (air = 1)

Vapour pressure: 0.2 mm Hg at 20 C

Density (g cm⁻³): 1.01

Flash point: 85 C (closed cup)

Explosion limits:

Autoignition temperature:

Water solubility: soluble in all proportions

10. Stability And Reactivity

Conditions to Avoid

Stable. Flammable

Incompatible Materials

Strong oxidizing agents, strong acids.

Other

None.

11. Toxicological Information

TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death.

Contact with molten substance may cause severe burns to skin and eyes.

Effects of contact or inhalation may be delayed.

Harmful by ingestion, inhalation or if absorbed through skin.

Severe eye, skin and respiratory irritant.

Corrosive - causes burns. May cause CNS depression. Very destructive of mucous membranes. Typical TLV/TWA 3 ppm. Typical STEL 6 ppm.

Toxicity data

ORL-RAT LD50 2100 mg kg⁻¹

SKN-RAT LD50 1500 mg kg⁻¹

IPR-RAT LD50 981 mg kg⁻¹

IVN-RAT LD50 800 mg kg⁻¹

ORL-MUS LD50 700 mg kg⁻¹

ORL-RBT LD50 1000 mg kg⁻¹

SKN-RBT LD50 1 mg kg⁻¹

Risk phrases

R20 R34 R36 R37 R38.

12. Ecological Information

The substance is toxic to aquatic organisms.

It is strongly advised that this substance does not enter the environment.

13. Disposal Considerations

Disposal Method Product

There are no uniform EC regulations for the disposal of chemicals or residues.

Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.

We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal Method Packaging Disposal in accordance with local legal provisions.

14. Transport Information

MATERIAL SAFETY DATA SHEET

ULTRATET

<u>UN No</u>	2491	<u>Hazchem Code</u>	2r
<u>ERG No.</u>	153	<u>EAC</u>	60
<u>IMDG-Shipping Name</u>	ETHANOLAMINE or ETHANOLAMINE SOLUTION		
<u>IMDG Code</u>	8161	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 8 Corrosive Group: III		
<u>Subsidiary Risks</u>	Flammable liquid if locally transported in bulk		

15. Regulatory Information

<u>EEC Hazard Classification</u>	8
<u>Risk Phrases</u>	R10 Flammable. R21 Harmful in contact with skin. R22 Harmful if swallowed. R34 Causes burns. R43 May cause sensitization by skin contact. R53 May cause long-term adverse effects in the aquatic environment.
<u>Safety Phrases</u>	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing. S37 Wear suitable gloves. S39 Wear eye / face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.) S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

National Legislation

16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the properness of the product.

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LAST PAGE