

1. IDENTIFICATION

Product Identifier

Product Name ACCUTREAT 420
Chemical Name Neutralizing amine solution

Recommended use of the chemical and restrictions on use

Recommended use Corrosion inhibitor and pH control in water treatment
Restrictions on use For industrial use only

Supplier details

West Penetone Inc. 11411-160 Street
 Edmonton, AB,
 T5M3T7
 Tel: 780-454-3919

Emergency Telephone Number

(780) 454-3919 (Mon – Fri, 8 AM – 4:30 PM, Mountain time)
 CANUTEC 1-613-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity - single exposure (Respiratory system)	Category 3

Label Elements

DANGER

Hazard Statements

Combustible liquid
 Causes severe skin burns and eye damage.
 May cause respiratory irritation



Precautionary Statements - Prevention

Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves, protective clothing, and eye protection or face protection.
 Avoid breathing fume, mist, vapors, or spray.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 In case of fire: Use carbon dioxide, foam, or dry chemical to extinguish.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Diethyl ethanolamine	100-37-8	15 – 40*

*Actual concentration is withheld as a trade secret

4. FIRST AID MEASURES

Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician immediately.
Skin contact:	Wash with plenty of water. Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Inhalation:	If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention immediately.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious damage or irritation leading to discomfort, redness, swelling or blindness. Contact with skin may cause severe burns, irritation with local redness, and possible dermatitis shortly after exposure. Inhalation of vapors may cause irritation of the respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

Specific hazards arising from the chemical.

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen and sulfur.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up.

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid inhalation of fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas. Use personal protective equipment. Use proper bonding or ground procedures. Keep away from sources of ignition. Smoking should be prohibited in the application area

Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed away in a dry, cool and well-ventilated place, away from incompatible materials.

Incompatible Materials: Strong oxidizing agents and acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethyl ethanolamine CAS 100-37-8	TWA: 2 ppm	Not Available	Not Available

Appropriate engineering controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection: Safety glasses with side shields or goggles. Use a face-shield where mode of handling increases risk of splashing.

Skin and body protection: Wear protective gloves and protective clothing.

Respiratory Protection: Wear respiratory protection if ventilation is inadequate.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Yellow to brown liquid

ODOR:

Amine

ODOR THRESHOLD:

Not available

pH:

11 - 12

MELTING POINT / FREEZING POINT:

Not available

BOILING POINT/BOILING RANGE:

Approximately 100 °C

FLASH POINT:

> 63°C / 145°F

EVAPORATION RATE, water = 1:

>1

FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C:

Not available

VAPOR DENSITY (Air = 1):

Not available

RELATIVE DENSITY AT 20°C:

0.990 – 1.010

SOLUBILITY IN WATER:

soluble

PARTITION COEFFICIENT, N-OCTANOL/WATER:

Not available

AUTO-IGNITION TEMPERATURE:

Not available

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

Not available

FLAMMABLE LIMITS:

Not available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Avoid extreme temperatures. Store away from incompatible materials.

Incompatible Materials

Strong oxidizing materials and acids.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors such as oxides of carbon as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity**ATE_{mix}** – LD50 oral > 5000 mg/kg (rat), LD50 dermal - approx. 3450 mg/kg (rabbit), LC50 inhalation > 10 mg/L

Not classified as an acutely toxic mixture.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethyl ethanolamine CAS 100-37-8	1300 mg/kg (rat)	885 mg/kg (rabbit)	5 mg/l

Information on likely sources of exposure

Ingestion	May cause stomach pains, nausea, diarrhea other delayed effects.
Skin corrosion/irritation	May causes severe burns or skin irritation.
Inhalation	May cause respiratory irritation, drowsiness, or dizziness.
Serious eye damage/irritation	May cause serious eye damage or irritation with redness, swelling pain or blindness

Delayed and immediate effects and also chronic effects from short and long-term exposure	
Respiratory or skin sensitization	May cause drying of the affected area and dermatitis
Germ cell mutagenicity	None known.
Carcinogenicity	None known.
Reproductive toxicity	None known.
STOT - single exposure	None known.
Aspiration Hazard	None known.

Symptoms related to the physical, chemical and toxicological characteristics.

Severe burns or irritation of the skin and eye. Possible delayed effects due to prolonged or repeated skin exposure. Ingestion may cause irritation or a burning sensation of the mouth and throat, abdominal pain accompanied by nausea, vomiting, and diarrhea. Inhalation may cause irritation of nose, mouth, and upper respiratory tract, coughing, difficulty breathing, as well as headaches dizziness or nausea at high concentrations.

12. ECOLOGICAL INFORMATION

Persistence and degradability

Expected to be readily biodegradable

Bioaccumulative potential

No information available.

Mobility in soil

No information available

Other adverse effects

This product contains ingredients that are hazardous to aquatic life. Do not release untreated into natural waters

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN Number:	1760
UN Proper Shipping Name:	Corrosive liquid N.O.S (diethyl ethanolamine)
Transport Hazard Class(es)	
Class:	TDG: 8 US DOT: 8 IMDG: 8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not determined.

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

<u>Preparation Date</u>	June 19, 2023
<u>Revision Date</u>	Not applicable
<u>Revision Note</u>	Not applicable

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet