



Safety Data Sheet

EC 51 ALT

Revision date : 2012/09/10

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Version: 1.0

1. Product and Company Identification

Company

ZEE COMPANY, Inc.
4146 South Creek Road
Chattanooga, TN 37406

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

Chemical family:

Emulsion based on: polyacrylamide, cationic

2. Hazards Identification

Emergency overview

Caution - Slippery when wet!

This product is an eye and skin irritant.

Contains petroleum distillates and prolonged contact with mists may cause skin, eye and respiratory tract irritation. Continued overexposure may cause headache and dizziness. Ingestion may cause lung complications.

State of matter: liquid

Colour: cream, almost white

Odour: mineral oil-like

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Sensitization:

There is no evidence of a skin-sensitizing potential.

Chronic toxicity:

Carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Genotoxicity: No data was available concerning mutagenic activity. The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

Eye irritation, skin irritation, CNS depression

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3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
69011-36-5	1.0 - 3.0 %	isotridecanoethoxylate
64742-47-8	20.0 - 30.0 %	Distillates (petroleum), hydrotreated light
69418-26-4	35.0 - 52.0 %	Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide

4. First-Aid Measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point: > 93 °C
Flammability: not applicable
Self-ignition temperature: not self-igniting

Suitable extinguishing media:

dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Spilled product is slippery underfoot. Very slippery when wet.

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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6. Accidental release measures

Personal precautions:

Use personal protective clothing. Keep people away and stay on the upwind side.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

General advice:

Keep away from sources of ignition - No smoking.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: 5 - 25 °C

Temperature tolerance

Protect from temperatures below: 5 °C

Protect from temperatures above: 25 °C

8. Exposure Controls and Personal Protection

Components with workplace control parameters

adipic acid

ACGIH TWA value 5 mg/m³ ;

Distillates (petroleum),
hydrotreated light

ACGIH TWA value 200 mg/m³ Non-aerosol (total hydrocarbon vapor);
Application restricted to conditions in which there are negligible aerosol exposures.
Skin Designation Non-aerosol (total hydrocarbon vapor);
The substance can be absorbed through the skin.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

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Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Impermeable protective clothing

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Form:	emulsion
Odour:	mineral oil-like
Colour:	cream, almost white
pH value:	approx. 4
Boiling point:	approx. 100 °C
Density:	approx. 1.0 g/cm ³ (20 °C)
Solubility in water:	dispersible
Miscibility with water:	miscible
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures. Avoid freezing. Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

reactive chemicals

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity**Oral:**

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion**Skin:**

Species: rabbit

Result: Irritant.

Method: OECD Guideline 404

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The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye:

Species: rabbit

Result: Irritant.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration Hazard:

No aspiration hazard expected.

12. Ecological Information

Aquatic toxicity

Information on: cationic polyacrylamide

Assessment of aquatic toxicity:

The hydrolysis products are not acutely harmful to aquatic organisms. Acute effects on aquatic organisms are due to the cationic charge of the polymer, which is quickly neutralised in natural water courses by irreversible adsorption onto particles, hydrolysis and dissolved organic carbon. Fish toxicity and aquatic toxicity are drastically reduced by rapid irreversible adsorption onto suspended and/or dissolved organic matter.

Fish

Acute:

Oncorhynchus mykiss/LC50 (96 h): 10 - 100 mg/l

(under static conditions in the presence of 10 mg/L humic acid) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates

Acute:

daphnia/EC50 (48 h): 10 - 100 mg/l

(under static conditions in the presence of 10 mg/L humic acid)

Degradability / Persistence

Hydrolysis

Information on: cationic polyacrylamide

In contact with water the substance will hydrolyse rapidly.

Environmental mobility:

Information on: cationic polyacrylamide

Assessment transport between environmental compartments:

Adsorption to solid soil phase is expected.

13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

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Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations**Registration status:**

Chemical TSCA, US released / listed

OSHA hazard category: Chronic target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

State regulations

State RTK
MA, NJ, PA

CAS Number
64742-47-8

Chemical name
Distillates (petroleum), hydrotreated light

16. Other Information

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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