



Eistau De-Icer Spray 500 ml

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Eistau De-Icer Spray 500 ml – Art. 940612

Use of the substance/preparation

Anti-freezing agent.

Company/undertaking identification

Company name: einszett North America
MIMAN Corp.

Street: 16238 Ranch Rd. 620 N, F224

Place: Austin, Texas 78717 USA

Telephone: +1 (512) 377 1336 Fax: +1 (512) 354 7458

e-mail: support@1z-usa.com

Contact person: Michael Mankarious

Internet: www.1z-usa.com

Emergency telephone: +49 171 9939555 (Germany)

2. Hazards identification

Classification

Indications of danger : Highly flammable

R-phrases :

Highly flammable.

Explication of special hazards for human health and environment

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Preparation on the basis of anionic surfactants, alcohol, glycol, colorants and scent extracts

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-473-3	107-21-1	ethanediol, ethylene glycol	20 - 25 %	Xn R22

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

If victim is at risk of losing consciousness, position and transport on their side. Provide fresh air.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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After ingestion

Give nothing to eat or drink. Do not induce vomiting.

Advice to doctor

Hazards identification: Lung irritation.

5. Fire-fighting measures

Suitable extinguishing media

Extinguishing powder. Carbon dioxide (CO₂). Sand.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

In case of fire and/or explosion do not breathe fumes. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Extinguishing materials should be selected according to the surrounding area.

Fire class B: Burning liquid or melting substances.

6. Accidental release measures

Personal precautions

Provide adequate ventilation. Keep away from unprotected people. Keep upwind. Wear personal protection equipment.

Environmental precautions

Spilled product must not leak into the ground. Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods for cleaning up/taking up

Suitable absorbing material: diatomaceous earth. Do not rinse down with water.

7. Handling and storageHandling

Advice on safe handling

Provide for sufficient ventilation and punctiform suction at critical points.

Advice on protection against fire and explosion

In case of open handling, use devices with built-in suction where possible. Product is: Highly flammable.

Further information on handling

Avoid contact with skin and eyes.

Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Store only in original container.

Advice on storage compatibility

Keep away from food, drink and animal feed.

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Further information on storage conditions

Suitable material for floor covering: Solvent-proof.

Storage class (VCI):

3A

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Exposure controls



Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.

Respiratory protection

Respiratory protection required in case of: insufficient absorption, und prolonged action.

Hand protection

Tested protective gloves are to be worn:

NBR (Nitrile rubber). (0,33 - 0,5 mm)

Butyl rubber. (0,7 mm)

CR (polychloroprenes, Chloroprene rubber). (0,7 - 1,0 mm)

penetration time (maximum wearing period): 480 min

Eye protection

Suitable eye protection: Tightly sealed safety glasses.

Skin protection

Protective clothing: Lab apron.

9. Physical and chemical properties

General information

Physical state: liquid
 Color: light blue
 Odor: Alcohol

Important health, safety and environmental information

pH-Value (at 20 °C):

Test method
 7,5 DIN 19268

Changes in the physical state

Melting point:

-80 °C

Boiling point:

78 °C DIN 53171



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Flash point:	12 °C DIN 51755
Explosive properties	
not Explosive.	
Information refers to the solvent.	
Lower explosion limits:	2 vol. % DIN 51649
Upper explosion limits:	15 vol. % DIN 51649
Oxidizing properties	
not oxidizing.	
Vapor pressure:	53 hPa
(at 20 °C)	
Density (at 20 °C):	0,85 g/cm ³ DIN 51757
Water solubility:	1000 g/L
Solubility in other solvents:	Alcohol
Partition coefficient:	Undetermined.
Flow time:	< 30 s (3 mm) 3 DIN EN ISO 2431
Vapour density:	Undetermined.

10. Stability and reactivity

- Conditions to avoid
In case of warming: Risk of self ignition.
- Materials to avoid
Oxidizing agents.
- Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

11. Toxicological information

- Acute toxicity
Acute toxicity, oral LD50: > 2000 mg/kg species: Rat. Method: OECD 423
Acute toxicity, dermal LD50: > 2000 mg/kg species: Rat. Method: OECD 402
- Corrosive and irritant effects
Irritant effect on the eye: irritant. Practical experience.
Irritant effect on the skin: mild irritant. Practical experience.
- Sensitizing effects
no danger of sensitization.
- Severe effects after repeated or prolonged exposure
Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

12. Ecological information

- Eco-toxicity
Acute fish toxicity LC50: 1-10 mg/L (96 h) Cyprinus carpio (Carp) OECD 203 C9-C15, Alkylethersulfat (2-3 EO), Na-Salt
Acute Daphnia toxicity EC50: 1-10 mg/L (48 h) Daphnia magna Method: OECD 202 C9-C15, Alkylethersulfat (2-3 EO), Na-Salt
Algae toxicity EC50: 10-100 mg/L (72 h) Scenedesmus subspicatus Method: OECD 201 C9-C15, Alkylethersulfat (2-3 EO), Na-Salt



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Persistence and degradability

Biological degradation:

Degree of elimination: > 60 % (28 d) Easily biodegradable (concerning to the criteria of the OECD)

Degree of elimination: > 95% Method: OECD 301E/ EWG 92/69, annex V, C.4-B

Biologically degradable according to the criteria laid out in the Washing and Cleansing Agents Act.

Bio-accumulative potential

No indication of bio-accumulation potential.

Other adverse effects

AOX: The product contains no organically bound Halogen.

13. Disposal considerations

Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing dangerous substances
Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

UN number: 1987

ADR/RID class: 3

Classification code: F1

Warning plate

Hazard-no.: 33

Hazard label: 3



ADR/RID packing group: II

Limited quantity: LQ4

Description of the goods

ALCOHOLS, N.O.S.

Other applicable information (land transport)

: 274 330 601 640C

: 2

: D1E

15. Regulatory information

Labeling

Danger symbols: F - Highly flammable

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**F - Highly flammable**

Hazardous component(s) to be indicated on label
ethanediol, ethylene glycol

R phrases

11 Highly flammable.

S phrases

09 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.

Special labeling for certain preparations

Operate if possible out of doors or in a well-ventilated place.

Additional advice on labeling

Product is classified and labeled in accordance with EC regulations or the corresponding national laws.

EU regulatory information

1999/13/EC (VOC): 91,731 % (770,542 g/l)

Additional information

Sources of the most important data: 2001/118/EG, 1999/45/EG, 91/155/EWG, 67/548/EWG, GefStoffV, WRMG, WHG, TRG 300, TRGS 200, TRGS 220, ADR 2007, IMDG-Code

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

11 Highly flammable.
22 Harmful if swallowed.

Further information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is solely responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)