

Safety Data Sheet

according to EC No. 1907/2006



Kristall Klar Premium 250 ml

Print date : 31.08.2007

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

Identification of the substance or preparation

Kristall Klar Premium 250 ml – Art. 921008

Use of the substance/preparation

Concentrated safety washer fluid for windshield washer units

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)	

Further Information

UBA-Nr.: 0750 0054

2. Hazards identification

Classification

Indications of danger : Irritant

R-phrases :

Irritating to skin.

Risk of serious damage to eyes.

Explication of special hazards for human health and environment

High skid risk because of leaking or spilled product.

3. Composition/information on ingredients

Chemical characterization (preparation)

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

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
288-330-3	85711-69-9	Sulfonic acids, C13-17-sec-alkane, sodium salts	10 - 15 %	Xi R38-41
500-223-8	68585-34-2	Alcohols, C10-16, ethoxylated, sulfates, sodium salts	5 - 10 %	Xi R36/38
203-539-1	107-98-2	1-methoxy-2-propanol, monopropylene glycol methyl ether	1 - 5 %	R10
209-406-4	577-11-7	Docusate sodium	1 - 5 %	Xi R10-38-41
203-376-6	106-23-0	3,7-Dimethyl-6-octen-1-al	<1 %	Xi, N R38-43-51-53
227-813-5	5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	<1 %	Xi, N R10-38-43-50-53

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

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Further Information

contains:
BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE
CITRONELLOL
LIMONENE
GERANIOL
CITRAL
Contains Limonen. May produce an allergic reaction.

4. First aid measures

General information

If victim is at risk of losing consciousness, position and transport on their side. Self-protection of the first aider.
Move victim out of danger zone. Take off immediately all contaminated clothing

After inhalation

In case of inhaling spray mists, consult a doctor immediately and show him box or label. In case of breathing difficulties administer oxygen.

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.

After ingestion

Rinse mouth immediately and drink large quantities of water.

5. Fire-fighting measures

Suitable extinguishing media

Material is not combustible. Extinguishing materials should be selected according to the surrounding area.

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 may form: Carbon monoxide. Carbon dioxide (CO₂).

Special protective equipment for fire-fighters

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

6. Accidental release measures

Personal precautions

Keep away from unprotected people. Keep upwind. Wear personal protection equipment.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Suitable absorbing material: Kieselguhr. Treat the assimilated material according to the section on waste disposal.

Additional information

See protective measures under point 7 and 8.

7. Handling and storage

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Handling

Advice on safe handling

The following must be prevented: skin contact. Eye contact.

Further information on handling

Use only in well-ventilated areas.

When diluting, always get the water first and then add the product.

Storage

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well ventilated place.

Advice on storage compatibility

Keep away from food, drink and animal feed.

Further information on storage conditions

Keep container tightly closed.

Storage class (VCI) :

3

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Avoid contact with skin, eye and clothing. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection required in case of: aerosol or mist generation.

Hand protection

Tested protective gloves are to be worn: Suitable material: Butyl rubber.

Eye protection

Tightly sealed safety glasses.

Skin protection

Wear suitable protective clothing.

9. Physical and chemical properties

General information

Physical state : liquid
 Color : green
 Odor : fruity

Important health, safety and environmental information



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		Test method
pH-Value (at 20 °C) :	10,7	DIN 19268
Changes in the physical state		
Boiling point :	92 °C	DIN 53171
Flash point :	65 °C	DIN 51755
Explosive properties		
not Explosive.		
Oxidizing properties		
not oxidizing.		
Vapor pressure :	Undetermined.	
Density (at 20 °C) :	1,01 g/cm ³	DIN 51757
Water solubility :	1000 g/L	
(at 20 °C)		
Partition coefficient :	Undetermined.	
Flow time :	> 30 s (3 mm)	3 DIN EN ISO 2431
Vapor density :	Undetermined.	

10. Stability and reactivity

- Conditions to avoid
 heating.
- Hazardous decomposition products
 No dangerous decomposition products known.

11. Toxicological information

- Acute toxicity
- LD50: Acute toxicity, oral 7060 mg/kg species: rat. method: OECD 423 Ethanol.
- LD50: Acute toxicity, dermal > 2000 mg/kg species: rat. method: OECD 402 C9-C15,
 Alkylethersulfat (2-3 EO), sodium salt
- 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. practical experience.

12. Ecological information

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



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Bioaccumulative potential

No indication of bio-accumulation potential.

Further information

Organic carbon : 322 mg/g

Organic carbon notes : benzenesulfonic acid, sodium salt, C10-C13-alkyl derivatives

Chemical Oxygen Demand (COD): 1510 mg/g

CSB comment : benzenesulfonic acid, sodium salt, C10-C13-alkyl derivatives
BSB note : not determined

13. Disposal considerations

Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Water.

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

14. Transport information

Further Information

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

Labeling

Danger symbols :

Xi - Irritant



Xi - Irritant

R phrases

38 Irritating to skin.
41 Risk of serious damage to eyes.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
39 Wear eye/face protection.

Additional advice on labeling

Product is classified and labeled according to EC regulations or according to the corresponding national laws.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

EU regulatory information

1999/13/EC (VOC) : ca. 15 % (150 - 160 g/L)

National regulatory information

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Water contaminating class : 1 - slightly water contaminating

Additional information

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

16. Other information

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

- | | |
|-------|---|
| 10 | Flammable. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
| 43 | May cause sensitization by skin contact. |
| 50 | Very toxic to aquatic organisms. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 36/38 | Irritating to eyes and skin. |

Other data

Moreover, national legislation has to be observed!

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.)