Safety Data Sheet

Winter screen wash -25°

Replaces date: 01/03/2024

Revision date: 26/06/2024
Version: 1.1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Winter screen wash -25°

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Refrigerant/Anti-freezing agents.

1.3. Details of the supplier of the safety data sheet

Supplier

Company:	Kramp UK Ltd
Address:	Unit 5 Lancaster Way
Zip code:	SG18 8YL
City:	Biggleswade
Country:	UNITED KINGDOM
Email:	support.uk@kramp.com
Phone:	+44(0)333 051 0111

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226

Most serious harmful effects: Flammable liquid and vapour. May cause slight irritation to the skin and eyes. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache.

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2.2. Label elements

Pictograms



Signal word: Warning

Hazard statements

H226	Flammable liquid and vapour.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting]equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+378	In case of fire: Use CO2, dry chemical, or foam for extinction.
P403+235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ UK-REACH Reg. No.	Concentration	Notes	CLP-classification
Ethanol	64-17-5 200-578-6	25 -< 50 %		Flam. Liq. 2;H225 Eye Irrit. 2;H319 C ≥ 50%: Eye Irrit. 2;H319
butanone	78-93-3 201-159-0	< 1 %		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336 EUH066
Ethanediol	107-21-1 203-473-3	< 1 %		Acute Tox. 4;H302 STOT RE 2;H373

Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin contact: Remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek

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medical advice if symptoms persist.

Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

General: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

May cause slight irritation to the skin and eyes. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: Organic compound/ Carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Keep unnecessary personnel away. Wear safety goggles if there is a risk of eye splash. Wear gloves. Provide adequate ventilation. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment must be available. A safety shower must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

To be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area. Do not expose to heat (e.g. sunlight). Store at temperatures below 15°C. Do not store with the following: Oxidisers/ Strong acids/ Strong alkalis.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m³	Fiber/cm3	Remarks	Comments
ethanol	8h	1000	1920			
ethanediol	8h		10		Particulate	Sk
ethanediol	8h	20	52		vapour	Sk
ethanediol	15m				Particulate	Sk
ethanediol	15m	40	104		vapour	Sk
butanone	8h	200	600			BMGV
butanone	15m	300	899			BMGV

BMGV = Biological monitoring guidance value (listed in Table 2).

Sk = Can be absorbed through the skin.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020. Control of Lead at Work Regulations 2002. Control of Asbestos Regulations 2012.

PNEC

Ethanol, cas-no 64-17-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC STP (wastewater-treatment facilities)	580 mg/l			
PNEC aqua (intermittent releases)	2,75 mg/l			
PNEC aqua (freshwater)	0,96 mg/l			
PNEC aqua (marine water)	0,79 mg/l			
PNEC sediment (freshwater)	3,6 mg/kg			
PNEC soil	0,63 mg/kg			
PNEC sediment (marine water)	2,9 mg/kg			

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PNEC oral (foodstuffs)	0,38 g/kg			

butanone, cas-no 78-93-3

Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC STP (wastewater-treatment facilities)	709 mg/l			
PNEC soil	22,5 mg/kg			
PNEC aqua (intermittent releases)	55,8 mg/l			
PNEC oral (foodstuffs)	1 g/kg			
PNEC aqua (freshwater)	55,8 mg/l			
PNEC aqua (marine water)	55,8 mg/l			
PNEC sediment (freshwater)	284,74 mg/kg			
PNEC sediment (marine water)	284,7 mg/kg			

Ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC STP (wastewater-treatment facilities)	199,5 mg/l			
PNEC soil	1,53 mg/kg			
PNEC aqua (intermittent releases)	10 mg/l			
PNEC aqua (freshwater)	10 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC sediment (freshwater)	37 mg/kg			
PNEC sediment (marine water)	3,7 mg/kg			

DNEL - workers

Ethanol, cas-no 64-17-5

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	950 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	343 mg/kg				

butanone, cas-no 78-93-3

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	1161 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	600 mg/m³				

Ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note

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Dermal DNEL (long-term exposure - systemic effects)	106 mg/kg				
Inhalation DNEL (long-term exposure - local effects)	35 mg/m³				

DNEL - general population

Ethanol, cas-no 64-17-5

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long-term exposure - systemic effects)	87 mg/kg				
Dermal DNEL (long-term exposure - systemic effects)	206 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	114 mg/m³				

butanone, cas-no 78-93-3

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long-term exposure - systemic effects)	31 mg/kg				
Dermal DNEL (long-term exposure - systemic effects)	412 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	106 mg/m³				

Ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	53 mg/kg				
Inhalation DNEL (long-term exposure - local effects)	7 mg/m³				

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below. Work under effective process ventilation (e.g. local exhaust ventilation).

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 16321.

Personal protective equipment, hand protection: Wear gloves. Type of material and thickness: Polyethylene 0,062 mm Penetration time: >8 hours. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Use process ventilation. If this is not possible, use respiratory equipment. Filter type: A. / P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
Physical state	Liquid
Colour	Blue
Odour	Citrus
Solubility	No data

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	90 °C	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	26 °C	
Auto-ignition temperature	399 °C	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	6 - 10	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	3292 Pa	(20 °C) 16,47 kPa (50 ºC)
Density	915.1 kg/m³	(20 °C)
Relative density	0.915	(20 °C)
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Molecular weight	46,58 g/mol	
Explosive properties		Vapours may form explosive mixtures with air.
VOC (Volatile organic compounds)	387,08 g/L	Density (20 °C)
VOC (Volatile organic compounds)	42,3% w/w%	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Oxidisers/ Strong alkalis/ Strong acids.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

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10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight.

10.5. Incompatible materials

Oxidisers/ Strong acids/ Strong alkalis.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Organic compound/ Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		6200 mg/kg			

butanone, cas-no 78-93-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		4000 mg/kg			

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		20000 mg/kg			

butanone, cas-no 78-93-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		6400 mg/kg			

Ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 3500 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	124.7 mg/l			

butanone, cas-no 78-93-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4h	23.5 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation: May cause eye irritation. The product does not have to be classified. Test data are not available.

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Respiratory sensitisation or skin sensitisation: The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache. The product does not have to be classified. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		48hEC50	9268 mg/l			
Fish	Alburnus alburnus		96hLC50	11000 mg/l			
Algae	Microcystis aeruginosa		192hEC50	1450 mg/l			
Fish	Danio rerio		NOEC	250 mg/l			
Crustacea	Ceriodaphnia dubia		NOEC	2 mg/l			

butanone, cas-no 78-93-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	3220 mg/l			
Crustacea	Daphnia magna		48hEC50	5091 mg/l			
Algae	Scenedesmus quadricauda		168hEC50	4300 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		14 d		89 %			

butanone, cas-no 78-93-3

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BOD5	2.03 g O2/g			
			COD	2.31 g O2/g			
			BOD5/COD	0.88			
		20d		89 %			

Ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BOD5/COD	0.36			
		14 d		90 %			
			COD	1.29		g O2/g	
			BOD5	0.47		g O2/g	

Expected to be biodegradable.

12.3. Bioaccumulative potential

Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	3			
			Log Pow	-0.31			

butanone, cas-no 78-93-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	3			
			Log Pow	0.29			

Ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	10			
			Log Pow	-1.36			

The product contains at least one substance with low bioaccumulative potential.

12.4. Mobility in soil

Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			koc	1			

butanone, cas-no 78-93-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			koc	30			

Ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			koc	0			

The product contains at least one substance with high soil mobility.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Uncleansed packaging is to be disposed of via the local waste-removal scheme. Empty, cleansed packaging should be disposed of for recycling.

Category of waste:

EWC code: Depends on line of business and use, for instance 16 01 14* antifreeze fluids containing hazardous substances

Absorbent/cloth contaminated with the product: EWC code: 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	1993	**14.4. Packing group:**	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol)	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	**Tunnel restriction code:**	D/E

Inland water ways transport (ADN)

14.1. UN number or ID number:	1993	**14.4. Packing group:**	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol)	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN number or ID number:	1993	**14.4. Packing group:**	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol)	**14.5. Environmental hazards:**	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	3	**Environmental Hazardous Substance Name(s):**	
Hazard label(s):	3		
EmS:	F-E, S-E	**IMDG Code segregation group:**	- None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	1993	**14.4. Packing group:**	III
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol)	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).

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14.3. Transport hazard class(es):	3
Hazard label(s):	3

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions:

The Control of Major Accident Hazards Regulations 2015, P5c FLAMMABLE LIQUIDS: Column 2: 5000 t, Column 3: 50000 t.

Covered by:
The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.1.0	26/06/2024	Bureau Veritas/SUJ	1,5,8,9,11,12,16

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC “The Registration, Evaluation and Authorization of Chemicals” as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

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Hazard statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.

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