



SAFETY DATA SHEET
KRS5 WASHING UP LIQUID CONCENTRATE
According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name KRS5 WASHING UP LIQUID CONCENTRATE

Internal identification C884

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

Identified uses Cleaning agent.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier ARROW SOLUTIONS
RAWDON ROAD,
MOIRA,
SWADLINCOTE,
DERBYSHIRE,
DE12 6DA,
ENGLAND
TEL: +44 (0)1283 221044
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Danger

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Hazard statements	<p>EUH208 Contains Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P280 Wear protective gloves, eye and face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	Sulfonic acids, C14-17-sec-alkane, sodium salts
Detergent labelling	15 - < 30% anionic surfactants, < 5% aliphatic hydrocarbons, < 5% amphoteric surfactants, < 5% non-ionic surfactants, < 5% perfumes, Contains LIMONENE, CITRAL, Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Sulfonic acids, C14-17-sec-alkane, sodium salts			10-30%
CAS number: 97489-15-1	EC number: 307-055-2	REACH registration number: 01-2119489924-20-XXXX	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			
Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts			5-10%
CAS number: 68891-38-3	EC number: 500-234-8	REACH registration number: 01-2119488639-16-XXXX	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			
COCO AMIDO PROPYL BETAINE			1-5%
CAS number: 97862-59-4	EC number: 931-296-8	REACH registration number: 01-2119488533-30-XXXX	
Classification Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			

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(2-methoxymethylethoxy) propanol			1-5%
CAS number: 34590-94-8	EC number: 252-104-2	REACH registration number: 01-2119450011-60-XXXX	
Classification Not Classified			

AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES			<1%
CAS number: 308062-28-4	EC number: 931-292-6	REACH registration number: 01-2119490061-47-XXXX	
M factor (Acute) = 1			
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411			

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)			<1%
CAS number: 55965-84-9			
M factor (Acute) = 100		M factor (Chronic) = 100	
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Skin Sens. 1A - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Rinse with water.

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Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Causes skin irritation. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Causes serious eye damage.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x). Sulphurous gases (SO_x).

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage. If ventilation is inadequate, suitable respiratory protection must be worn. Do not enter storage areas or confined spaces unless adequately ventilated.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Wear protective gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Avoid contact with contaminated tools and objects. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

(2-methoxymethylethoxy) propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Sulfonic acids, C14-17-sec-alkane, sodium salts (CAS: 97489-15-1)

DNEL	Workers - Dermal; Short term local effects: 2.8 mg/cm ²
	Workers - Dermal; Long term systemic effects: 5 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 35 mg/m ³
	Workers - Dermal; Long term local effects: 2.8 mg/cm ²
	General population - Dermal; Short term local effects: 2.8 mg/cm ²
	General population - Dermal; Long term systemic effects: 3.57 mg/kg/day
	General population - Inhalation; Long term systemic effects: 12.4 mg/m ³
	General population - Oral; Long term systemic effects: 7.1 mg/kg/day
	General population - Dermal; Long term local effects: 2.8 mg/cm ²
PNEC	- Fresh water; 0.04 mg/l
	- marine water; 0.004 mg/l
	- Intermittent release; 0.06 mg/l
	- Sediment (Freshwater); 9.4 mg/kg
	- Sediment (Marinewater); 0.94 mg/kg
	- Soil; 9.4 mg/kg
	- STP; 600 mg/l

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts (CAS: 68891-38-3)

DNEL	Industry - Dermal; Long term systemic effects: 2750 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 175 mg/m ³
	Consumer - Oral; Long term systemic effects: 15 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 52 mg/m ³

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PNEC	- Fresh water; 0.24 mg/l
	- marine water; 0.024 mg/l
	- Intermittent release; 0.071 mg/l
	- Sediment (Freshwater); 5.45 mg/kg
	- Sediment (Marinewater); 0.545 mg/kg
	- Soil; 0.946 mg/kg
	- STP; 10000 mg/l

COCO AMIDO PROPYL BETAINE (CAS: 97862-59-4)

DNEL	Industry - Dermal; Long term systemic effects: 12.5
	Consumer - Dermal; Long term systemic effects: 7.5 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 44 mg/m ³

PNEC	- Fresh water; 0.0135 mg/l
	- STP; 300 mg/l
	- Soil; 0.8 mg/kg
	- Sediment (Marinewater); 0.1 mg/kg
	- Sediment (Freshwater); 1 mg/kg
	- marine water; 0.00135 mg/l

(2-methoxymethylethoxy) propanol (CAS: 34590-94-8)

DNEL	Industry - Dermal; Long term : 65 mg/kg/day
	Industry - Inhalation; Long term : 310 mg/m ³
	Consumer - Inhalation; Long term : 37.2 mg/m ³
	Consumer - Dermal; Long term : 15 mg/kg/day
	Consumer - Oral; Long term : 1.67 mg/kg/day

PNEC	- Fresh water; 19 mg/l
	- marine water; 1.9 mg/l
	- Intermittent release; 19 mg/l
	- STP; 4168 mg/l
	- Sediment (Freshwater); 70.2 mg/kg
	- Sediment (Marinewater); 7.02 mg/kg
	- Soil; 2.74 mg/kg

AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES (CAS: 308062-28-4)

DNEL	Workers - Dermal; systemic effects: 11 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 15.5 mg/m ³
	Workers - Dermal; local effects: 0.27 %
	General population - Dermal; Long term systemic effects: 5.5 mg/kg/day
	General population - Inhalation; Long term systemic effects: 1.53 mg/m ³
PNEC	General population - Oral; Long term systemic effects: 0.44 mg/kg/day

PNEC	- Fresh water; 0.0335 mg/l
	- marine water; 0.00335 mg/l
	- Water, Intermittent release; 0.0335 mg/l
	- Sediment (Freshwater); 5.24 mg/kg
	- Sediment (Marinewater); 0.524 mg/l
	- Soil; 1.02 mg/kg
	- STP; 24 mg/kg

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Wear chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex).

Other skin and body protection

Provide eyewash station.

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Respiratory protection

No specific requirements are anticipated under normal conditions of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Green.
Odour	Lemon.
Odour threshold	Not determined.
pH	pH (concentrated solution): ~7.0
Melting point	Not determined.

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Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	~ 1.04 @ 25°C
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	~700 cP @ 25°C
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	Does not meet the criteria for classification as oxidising.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
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10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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10.6. Hazardous decomposition products

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Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x). Sulphurous gases (SO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

Causes skin irritation. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact

Causes serious eye damage.

Acute and chronic health hazards

Corneal damage. Irritating to skin. May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

Route of exposure

Skin and/or eye contact

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Target organs	Eyes Skin
Medical symptoms	Allergic rash. Irritation of eyes and mucous membranes. Skin irritation.
Medical considerations	Skin disorders and allergies.

Toxicological information on ingredients.

Sulfonic acids, C14-17-sec-alkane, sodium salts

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 537.6

Species Rat

ATE oral (mg/kg) 537.6

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Mouse

ATE dermal (mg/kg) 2,001.0

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,100.0

Species Rat

Notes (oral LD₅₀)

ATE oral (mg/kg) 4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

COCO AMIDO PROPYL BETAINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

(2-methoxymethylethoxy) propanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,382.66

Species Rat

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ATE oral (mg/kg) 5,382.66

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

ATE dermal (mg/kg) 5,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3,080.0

Species Rat

ATE inhalation (vapours mg/l) 3,080.0

AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,064.0

Species Rat

Notes (oral LD₅₀)

ATE oral (mg/kg) 1,064.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.01

Species Rat

ATE dermal (mg/kg) 2,000.01

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 53.0

Species Rat

Notes (oral LD₅₀) Estimated value.

ATE oral (mg/kg) 53.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

Skin sensitisation

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Skin sensitisation

Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

Sulfonic acids, C14-17-sec-alkane, sodium salts

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 1 - 10 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 9.81 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 61 mg/l, Scenedesmus subspicatus

Acute toxicity - terrestrial NOEC, 28 days: 470 mg/kg, Eisenia Fetida (Earthworm)

Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 7.1 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 7.4 mg/l, Daphnia magna
NOEC, 48 hours: 0.27 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 27 mg/l, Scenedesmus subspicatus

COCO AMIDO PROPYL BETAINE

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 1.11 mg/l, Pimephales promelas (Fat-head Minnow)
LC50, 96 hours: 1.1 mg/l, Cyprinodon variegatus (Sheepshead minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.9 mg/l, Freshwater invertebrates
EC₅₀, : 0.3 mg/l, Freshwater invertebrates
EC₅₀, 48 hours: 21.5 mg/l mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 30.0 mg/l, Marinewater algae

(2-methoxymethylethoxy) propanol

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates NOEC, >: > 0.5 mg/l, Daphnia magna
EC₅₀, 48 hours: 1919 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: > 969 mg/l, Selenastrum capricornutum

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AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 2.67 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.146 mg/l, Algae
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	NOEC, 302 days: 0.42 mg/l, Fish
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.7 mg/l, Daphnia magna

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Acute aquatic toxicity

LE(C) ₅₀	0.001 < L(E)C ₅₀ ≤ 0.01
M factor (Acute)	100
Acute toxicity - fish	Estimated value. LC ₅₀ , 96 hours: 13 mg/l, Fish

Chronic aquatic toxicity

NOEC	0.0001 < NOEC ≤ 0.001
Degradability	Non-rapidly degradable
M factor (Chronic)	100

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Disposal methods

Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Special Provisions note

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 EC₅₀: 50% of maximal Effective Concentration.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 UN: United Nations.
 vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Skin Irrit. = Skin irritation
 Eye Dam. = Serious eye damage
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Skin Corr. = Skin corrosion
 Skin Sens. = Skin sensitisation
 Skin Irrit. = Skin irritation

Classification procedures according to Regulation (EC) 1272/2008

Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Aquatic Chronic 3 - H412, EUH208: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

22/03/2021

Revision

4.0

Supersedes date

27/07/2017

SDS number

29285

Hazard statements in full

H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H331 Toxic if inhaled.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH208 Contains Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.

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