

SAFETY DATA SHEET

Product: RD5

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

1.1 Product identifier

Product Name RD5
Product Number 101

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

Identified uses Cleaning instruments and jewellers in an ultrasonic cleaner
Uses advised against For professional users only

1.3 Details of the supplier and safety data sheet

Supplier Walker Electronics Ltd
Collingham, Newark
Nottinghamshire, NG23 7LA
Tel: 01636 892410
info@walkerelectronics.co.uk

1.4 Emergency telephone number

Emergency telephone 07890498288
SDS No. 101

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Elicitation - EUH208
Environmental hazards Aquatic Chronic 3 - H412
Classification (67/548/EEC or 1999/45/EC) Xi;R38,R41.

2.2 Label Elements

Pictogram



Signal word

Danger

Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE, 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] & 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains	BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERVIS SODIUM SALTS,ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS, ALCOHOLS C12 – 14 (7 - 7.5 EO)

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

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERVIS SODIUM SALTS 6-12%

CAS number: 68411-30-3 EC number: 270-115-0 REACH registration number: 01-2119489428-22

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn; R22, Xi; R38, R41
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS 2-6%

CAS number: 68891-38-3 EC number: 500-234-8 REACH registration number: 01-2119488639-16

Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	Xi; R38, R41
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	

ALCOHOLS C12 - 14 (7 - 7.5 EO) 1-2%

CAS number: 68439-50-9

Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Dam. 1 - H318	Xn;R22. Xi;R41.
Aquatic Chronic 3 - H412	

1,2-BENZISOTHIAZOL-3(2H)-ONE <0.02%

CAS number: 2634-33-5 EC number: 220-120-9
M factor (Acute) = 10

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn; R22. Xi; R41, R38. N; R50. R43
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	

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

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Get medical attention if irritation persists after washing.
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Skin contact	Skin irritation. May cause an allergic skin reaction.
Eye contact	Risk of serious damage to eyes. May cause permanent damage if eye is not immediately irrigated.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphurous gases (SO _x).
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5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces. Avoid contact with skin and eyes.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid contact with skin and eyes. Provide adequate ventilation.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

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

Ingredient comments No exposure limits known for ingredient(s).

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS (CAS: 68411-30-3)

DNEL Industry - Inhalation; Long term systemic effects: 12 mg/m³
Industry - Inhalation; Long term local effects: 12 mg/m³
Industry - Dermal; Long term systemic effects: 170 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 3 mg/m³
Consumer - Inhalation; Long term local effects: 3 mg/m³
Consumer - Dermal; Long term systemic effects: 85 mg/kg/day
Consumer - Oral; Long term systemic effects: 0.85 mg/kg/day

PNEC - Fresh water; 0.268 mg/l
- Marine water; 0.0268 mg/l
- Intermittent release; 0.0167 mg/l
- STP; 3.43 mg/l
- Sediment (Freshwater); 8.1 mg/kg
- Sediment (Marine water); 8.1 mg/kg
- Soil; 35 mg/kg

WATER (CAS: 7732-18-5)
Ingredient comments No exposure limits known for ingredient(s).

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, 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/m³
Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day
Consumer - Oral; Long term systemic effects: 15 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 52 mg/m³

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

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Wear eye protection. EN 166
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 or manufacturer who can provide information about the breakthrough time of the glove material. Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). EN 374
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Semi viscous light amber liquid.
Odour threshold	Not available.
pH	pH (diluted solution): 7 - 8 10%
Melting point	< 0°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.094 @ 20°C
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	2500 cP @ 20°C
Explosive properties	Not available.
Oxidising properties	Not available.

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.
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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	Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

Materials to avoid	Not determined.
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10.6. Hazardous decomposition products

Hazardous decomposition Products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphurous gases (SOx).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral	
Notes (oral LD ₅₀)	Not available.
ATE oral (mg/kg)	3,000.0
Skin corrosion/irritation	
Extreme pH	Not available.
Serious eye damage/irritation	
Serious eye damage/irritation	Not available.
Respiratory sensitisation	
Respiratory sensitisation	Not available.
Germ cell mutagenicity	
Genotoxicity - in vitro	Not available.
Carcinogenicity	
Carcinogenicity	Not available.
Reproductive toxicity	
Reproductive toxicity – fertility	Not available.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not available.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not available.
Aspiration hazard	
Aspiration hazard	Not available.
Inhalation	May cause respiratory irritation.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	May cause an allergic skin reaction. Irritating to skin.
Eye contact	Irritating to eyes.
Toxicological information on ingredients.	

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVIS SODIUM SALTS

Acute toxicity – oral	
Acute toxicity oral (LD ₅₀ mg/kg)	1,080.0
Species	Rat
ATE oral (mg/kg)	1,080.0
Acute toxicity – dermal	
Acute toxicity dermal (LD ₅₀ 2,000.0 mg/kg)	
Species	Rat
Skin corrosion/irritation	
Animal data	Severe irritation.
Serious eye damage/irritation	

Serious eye damage/irritation	Severe irritation.
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Chromosome aberration: Negative. This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	Scientifically unjustified.
Reproductive toxicity	
Reproductive toxicity - Fertility	Two-generation study - NOAEL 350 mg/kg, Oral, Rat F2a
Reproductive toxicity - Development	Teratogenicity: - NOAEL: 300 mg/kg, Oral, Rat
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	NOAEL 125 mg/kg, Oral, Rat
Target organs	Spleen Heart & cardiovascular system Liver
Aspiration hazard	
Aspiration hazard	Not relevant.
Inhalation Dust	may irritate the respiratory system.
Ingestion	Harmful if swallowed. May cause discomfort if swallowed.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes.
<u>ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS</u>	
Acute toxicity – oral	
Notes (oral LD ₅₀)	LD ₅₀ >2000 mg/kg, Oral, Rat
Acute toxicity – dermal	
Notes (dermal LD ₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rat
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Inhalation	May cause respiratory system irritation.
Ingestion	The product irritates mucous membranes and may cause abdominal discomfort if swallowed.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Acute toxicity – oral

Acute toxicity oral
(LD₅₀ mg/kg) 2,000.0

Species Rat

Notes (oral LD₅₀) OECD 401

Acute toxicity – dermal

Acute toxicity dermal
(LD₅₀mg/kg) 2,000.00

Species Rabbit

Notes (dermal LD₅₀) OECD 402

Acute toxicity – inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 1.6

Species Rat

Notes (inhalation LC₅₀) OECD 403

ATE inhalation (vapours
mg/l) 1.6

Inhalation Upper respiratory irritation.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Slightly irritating.

Eye contact Risk of serious damage to eyes.

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Acute toxicity – oral

Acute toxicity oral
(LD₅₀mg/kg) 1,600.0

Species Rat

Notes (oral LD₅₀) > 1600 mg/kg

ATE oral (mg/kg) 1,600.0

Acute toxicity – dermal

Acute toxicity dermal
(LD₅₀mg/kg) 12,970.0

Species Rabbit

Skin corrosion/irritation

Animal data Skin irritation.

Serious eye damage/irritation

Serious eye
damage/irritation Risk of serious damage to eyes.

Respiratory sensitisation	
Respiratory sensitisation	Data lacking.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
Reproductive toxicity	
Reproductive toxicity - Development	This substance has no evidence of toxicity to reproduction.
Specific target organ toxicity - single exposure	
STOT - single exposure	Data lacking.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Causes damage to organs (Blood, Kidneys, Liver) through prolonged or repeated exposure if swallowed.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
Toxicokinetics	May cause damage to organs (Blood, Liver, Kidneys) through prolonged or repeated exposure if swallowed.
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	Harmful if swallowed.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes. Risk of corneal damage.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Acute toxicity – oral

Acute toxicity oral (LD ₅₀ mg/kg)	670.0
Species	Rat
Notes (oral LD ₅₀)	LD ₅₀ 670 mg/kg, Oral, Rat NOAEL 25 mg/kg/day, Oral, Rat 90 days
ATE oral (mg/kg)	670.0

Acute toxicity – dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species	Rat
Notes (dermal LD ₅₀)	LD ₅₀ > 5000 mg/kg, Dermal, Rat
ATE dermal (mg/kg)	5,000.0

Skin corrosion/irritation

Skin corrosion/irritation Slightly irritating., Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Skin sensitisation

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

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecological information on ingredients.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

DIETHANOLAMINE

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS

Acute toxicity – fish LC50, 96 hours: 1.67 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity – aquatic EC₅₀, 48 hours: 2.9 mg/l, Daphnia magna
Invertebrates

Chronic toxicity - fish early NOEC, 28 days: 1 mg/l, Lepomis macrochirus (Bluegill)
life stage

Short term toxicity - NOEC, : 0.23 mg/l, Onchorhynchus mykiss (Rainbow trout)
embryo and sac fry stages

Chronic toxicity – aquatic NOEC, 21 days: 1.18 mg/l, Daphnia magna
Invertebrates EC₅₀, 21 days: 1.67 mg/l, Daphnia magna

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Acute toxicity – fish LC50, 96 hours: 7.1 mg/l, Fish

Acute toxicity – aquatic EC₅₀, 48 hours: 7.4 mg/l, Daphnia magna
Invertebrates

Acute toxicity – aquatic EC₅₀, 72 hours: 27.7 mg/l, Algae
Plants NOEC, 72 hours: 0.95 mg/l, Algae

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Toxicity The product contains a substance which is harmful to aquatic organisms.

Acute toxicity – aquatic NOEC, : 0.77 mg/l, Daphnia magna
Invertebrates

DIETHANOLAMINE

Acute toxicity - fish	LC ₅₀ , 96 hours: 1460 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity – aquatic Invertebrates	EC ₅₀ , 48 hours: 55 mg/l, Daphnia magna
Acute toxicity – aquatic Plants	EC ₅₀ , 96 hours: 2.2 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: >1000 mg/l, Activated sludge
Chronic toxicity – aquatic Invertebrates	NOEC, 21 days: 0.78 mg/l, Daphnia magna

1,2-BENZISOTHIAZOL-3(2H)-ONE

Acute aquatic toxicity

LE(C) ₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
Acute toxicity – fish	LC ₅₀ , 96 hours: 1.3 - 1.6 mg/l, Fish
Acute toxicity – aquatic Invertebrates	EC ₅₀ , 48 hours: 1.5 - 3.3 mg/l, Daphnia magna
Acute toxicity – aquatic plants	IC ₅₀ , 72 hours: 0.15 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVIS SODIUM SALTS

Persistence and Degradability	The substance is readily biodegradable.
Biodegradation	- Degradation (%) 85: 29 days OCED 301B

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation (%) 100: 28 days

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Persistence and Degradability	The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.
Biodegradation	- Degradation (%) 90: OECD 301

DIETHANOLAMIN

Persistence and degradability	The product is readily biodegradable.
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1,2-BENZISOTHIAZOL-3(2H)-ONE

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 100%: 28 day (OECD 301B)

12.3. Bio accumulative potential

Bio accumulative potential No data available on bio accumulation.

Partition coefficient Not available.

Ecological information on ingredients.

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS

Bio accumulative potential The product is not bio accumulating.

Partition coefficient log Pow: 3.32

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Bio accumulative potential The product does not contain any substances expected to be bio accumulating.
BCF: < 3,

Partition coefficient log Pow: 0.3

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Bio accumulative potential No data available on bioaccumulation. BCF: 12.7,

DIETHANOLAMINE

Bio accumulative potential The product does not contain any substances expected to be bio accumulating.

Partition coefficient : -2.18

1,2-BENZISOTHIAZOL-3(2H)-ONE

Partition coefficient log Pow: 1.3

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Mobility The product is soluble in water.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Mobility The product is soluble in water.

DIETHANOLAMINE

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB Assessment No data available.

Ecological information on ingredients.

BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS

Results of PBT and vPvB Assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Results of PBT and vPvB Assessment This substance is not classified as PBT or vPvB according to current EU criteria.

DIETHANOLAMINE

Results of PBT and vPvB Assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not known.

Ecological information on ingredients.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Other adverse effects No information required.

DIETHANOLAMINE

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

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

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (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) 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

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.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bio accumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bio accumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bio concentration Factor.
BOD: Biochemical Oxygen Demand.
EC₅₀: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.

Risk phrases in full

R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.

Hazard statements in full

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Revision date
Revision
SDS number

16/11/2018
4.1
101