

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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ROTOSAN

Revision 3
Revision date 2017-01-31

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

1.1. Product identifier

Product name ROTOSAN

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

Product Use [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);

1.3. Details of the supplier of the safety data sheet

Company DAW Enterprises
Address Staffordshire
ST15 0SR
England

Telephone (01785) 811465
Fax (01785) 811511

1.4. Emergency telephone number

Emergency telephone number (01785) 811465

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC
Xi; R38-41 R31-52/53
Symbols: Xi: Irritant.

Main hazards Contact with acids liberates toxic gas. Irritating to skin. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.1.2. Classification - EC 1272/2008
Skin Corr. 1A: H314; Aquatic Chronic 2: H411;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

Hazard Statement

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statement:
Prevention

P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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2.2. Label elements

Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 -Immediately call a POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Further information

	Contains:.. disodium metasilcate.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Sodium carbonate	011-005-00-2	497-19-8	207-838-8	01-2119485498-19	50 - 60%	Xi; R36	
Disodium metasilicate	014-010-00-8	6834-92-0	229-912-9	01-2119449811-37	1 - 10%	C; R34 Xi; R37	
sodium alkylbenzenesulphonate		90194-45-9	290-656-6	01-2119490234-40	1 - 10%	Xn; R22 Xi; R38-41	
Troclosene sodium		51580-86-0	220-767-7	01-2119489371-33	1 - 10%	Xn; R22 Xi; R36/37 N; R50/53 R31	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Sodium carbonate	011-005-00-2	497-19-8	207-838-8	01-2119485498-19	50 - 60%	Eye Irrit. 2: H319;	
Disodium metasilicate	014-010-00-8	6834-92-0	229-912-9	01-2119449811-37	1 - 10%	Skin Corr. 1B: H314; STOT SE 3: H335;	
sodium alkylbenzenesulphonate		90194-45-9	290-656-6	01-2119490234-40	1 - 10%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318;	
Troclosene sodium		51580-86-0	220-767-7	01-2119489371-33	1 - 10%	Acute Tox. 4: H302; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 1: H410; EUH031;	
C9-11 Alcohol Ethoxylate 6-8 moles EO (*R01)		68439-46-3			0.5 - 1%	Acute Tox. 4: H302; Eye Dam. 1: H318;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Wash with water. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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

Inhalation	Irritant, severe respiratory.
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4.2. Most important symptoms and effects, both acute and delayed

Eye contact	Causes severe burns.
Skin contact	Causes severe burns.
Ingestion	Causes severe burns.

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

	No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	For personal protective equipment see subsection 8.2. For disposal considerations see section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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7.3. Specific end use(s)

	No specific advice for end use available.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL: Derived no-effect level.

Exposure Pattern - Workers

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Exposure Pattern - Workers

Disodium metasilicate	Long-term - inhalation - Systemic effects 6.22 mg/m ³
	Long-term - dermal - Systemic effects 1.49 mg/kg
Sodium carbonate	Long-term - inhalation - Local effects 10 mg/m ³

Exposure Pattern - General population

Disodium metasilicate	Long-term - inhalation - Systemic effects 1.55 mg/m ³	
	Long-term - dermal - Systemic effects 0.74 mg/kg	Long-term - oral - Systemic effects 0.74 mg/kg
Sodium carbonate	Acute inhalation - Local effects 10 mg/kg	

8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands after handling the product.
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Safety glasses.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not normally required. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	White
Odour	Characteristic
pH	> 11.5 @ 1%
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

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9.2. Other information

Conductivity	No data available
Surface tension	No data available
Bulk Density	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No other adverse effects known.

10.4. Conditions to avoid

Avoid contact with: Acids.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4. Toxicological Information

Disodium metasilicate	Inhalation Rat LC50/15min: NDA Oral Rat LD50: 847 mg/kg Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
sodium alkylbenzenesulphonate	Inhalation Rat LC50/15min: NDA Oral Rat LD50: NDA Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
Sodium carbonate	Inhalation Rat LC50/15min: NDA Oral Rat LD50: 2800 mg/kg Dermal Rabbit LD50: >2000mg/kg	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
Troclosene sodium	Dermal Rat LD50: 5000 mg/kg Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA	Oral Rat LD50: 735 mg/kg Dermal Rabbit LD50: NDA Inhalation Rat LC50/4 h: >59 mg/l

SECTION 12: Ecological information

12.1. Toxicity

Disodium metasilicate	Algae EC50/72h: NDA Guppy LC50/96h: NDA	Daphnia LC50/48h: NDA
sodium alkylbenzenesulphonate	Algae EC50/72h: NDA Guppy LC50/96h: NDA	Daphnia LC50/48h: NDA
Sodium carbonate	Daphnia EC50/48h: 227.0000 mg/l Algae EC50/72h: NDA	Fish LC50/96h: 300.0000 mg/l
Troclosene sodium	Daphnia EC50/48h: 0.2100 mg/l	Fish LC50/96h: 0.4600 mg/l

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	ROTOSAN No data available
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.
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12.6. Other adverse effects

	No other adverse effects known.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	Dispose of in compliance with all local and national regulations. Empty containers can be cleaned with water.
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Further information

	European Waste Catalogue: 20 01 15 alkalines.
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SECTION 14: Transport information

Hazard pictograms



14.1. UN number

	UN1759
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14.2. UN proper shipping name

	CORROSIVE SOLID, N.O.S. (DISODIUM METASILICATE)
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14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	III
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

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ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	864
Maximum quantity	100 kg
Packing Instruction (Passenger)	860
Maximum quantity	25 kg

SECTION 15: Regulatory information

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

	Ingredients according to EC Detergent regulations shown in section 16 if applicable.
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15.2. Chemical safety assessment

	A chemical safety assessment has not been carried out on the mixture.
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SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 2 - 2.1. Classification of the substance or mixture. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Disposal. 2 - Further information. 9 - 9.1. Information on basic physical and chemical properties (Appearance). 9 - 9.1. Information on basic physical and chemical properties (Colour). 9 - 9.1. Information on basic physical and chemical properties (Odour). 9 - 9.1. Information on basic physical and chemical properties (PH). 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Melting point). 9 - 9.1. Information on basic physical and chemical properties (Flash point). 9 - 9.1. Information on basic physical and chemical properties (Flammability (solid, gas)). 9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature). 9 - 9.1. Information on basic physical and chemical properties (Explosive properties). 9 - 9.1. Information on basic physical and chemical properties (Oxidising properties). 9 - 9.1. Information on basic physical and chemical properties (Viscosity). 9 - 9.1. Information on basic physical and chemical properties (Evaporation rate). 9 - 9.1. Information on basic physical and chemical properties (Freezing Point). 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.1. Information on basic physical and chemical properties (Solubility). 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Partition coefficient). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Bulk Density). 14 - ADR/RID. 14 - IMDG. 14 - IATA. 15 - Risk phrases. 15 - Safety phrases.
Acronyms	LC: Lethal concentration.

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Other information

	<p>LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic. SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.</p>
<p>Text of risk phrases in Section 3</p>	<p>R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R34 - Causes burns. R36/37 - Irritating to eyes and respiratory system. R36 - Irritating to eyes. R37 - Irritating to respiratory system. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
<p>Text of Hazard Statements in Section 3</p>	<p>Eye Irrit. 2: H319 - Causes serious eye irritation. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage. EUH031 - Contact with acids liberates toxic gas. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</p>
<p>Labelling for contents</p>	<p>phosphates 5% - < 15% anionic surfactants 0% - < 5% chlorine-based bleaching agents 0% - < 5% non-ionic surfactants 0% - < 5%</p>

Further information

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p>
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