



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

SAFETY DATA SHEET

S25 ALGAE REMOVER

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

1.1. Product identifier

Trade name: S25 Algae Remover

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

Relevant identified uses of the substance or mixture :None known.

Uses advised against :None known.

1.3. Details of the supplier of the safety data sheet

Company and address: Orca Hygiene

Blackhouse Circle, Blackhouse Industrial Estate,

AB42 1BN Peterhead

United Kingdom

Tel: +44 (0)1779 871945

E-mail : technical@orcahygiene.com

Revision : 23/02/2023

SDS Version:1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictogram(s) :



Signal word : Danger

Hazard statement(s) : Causes severe skin burns and eye damage.

Safety statement(s) : (H314) General



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Keep out of reach of children. (P102)
 If medical advice is needed, have product container or label at hand. (P101)
 Prevention
 Wear eye protection/protective gloves/protective clothing. (P280)
 Response
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
 Storage
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Hazardous substances

:Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
 Alcohols, C9-11, ethoxylated
 :Not applicable.

Additional labelling

2.3. Other hazards

Additional warnings

: This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
 This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance Identifiers	% w/w	Classification	Note
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, EC chlorides UK-REACH: Index No.:	CAS No.: 68424-85-1 EC No.: 270-325-2	1-3% Acute Tox. 4, H302 Skin Corr. 1B, H314	
Alcohols, C9-11, ethoxylated EC No.: 614-482-0 UK-REACH: Index No.:	CAS No.: 68439-46-3	1-3% Acute Tox. 4, H302 Eye Dam. 1, H318	[19]



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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion:In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics:Bring this safety data sheet or the label from this product.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

~~Wear self-contained breathing~~ apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.



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7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material: Always store in containers of the same material as the original container.

Storage temperature: No specific requirements

Incompatible materials: Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

Alcohols, C9-11, ethoxylated

Duration: Route of exposure:		DNEL:
Long term – Systemic effects - WorkersDermal		2080 mg/kg bw/day
Long term – Systemic effects - WorkersInhalation		294 mg/m ³

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Duration: Route of exposure:		DNEL:
Long term – Systemic effects - WorkersDermal		5.7 mg/kg bw/day
Long term – Systemic effects - WorkersInhalation		3.96 mg/m ³

PNEC

Alcohols, C9-11, ethoxylated

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		103.79 µg/L
Freshwater sediment		13.7 mg/kg
Intermittent release (freshwater)		14 µg/L
Marine water		103.79 µg/L
Marine water sediment		13.7 mg/kg
Sewage treatment plant		1.4 mg/L



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Soil		1 mg/kg
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Route of exposure: Duration of Exposure:		PNEC:
Freshwater		900 ng/L
Freshwater sediment		12.27 mg/kg
Intermittent release (freshwater)		160 ng/L
Marine water		960 ng/L
Marine water sediment		13.09 mg/kg
Sewage treatment plant		400 µg/L

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Wash contaminated clothing before reuse.

Respiratory Equipment: No specific requirements

Skin protection: No specific requirements.

Hand protection: No specific requirements.

Eye protection: No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical

Physical state: Liquid

Colour : Colourless

Odour / Odour threshold: Characteristic



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pH	: 9-10
Density (g/cm³)	: Testing not relevant or not possible due to the nature of the
Relative density	: product. 1 (20 °C)
Kinematic viscosity	: Testing not relevant or not possible due to the nature of the
Particle characteristics	: product. Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)	: Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C)	: Does not apply to liquids.
Boiling point (°C)	: Testing not relevant or not possible due to the nature of the product.
Vapour pressure	: Testing not relevant or not possible due to the nature of the product.
Relative vapour density	: Testing not relevant or not possible due to the nature of the product.
Decomposition temperature (°C)	: Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)	: Testing not relevant or not possible due to the nature of the product.
Flammability (°C)	: Testing not relevant or not possible due to the nature of the product.
Auto-ignition temperature (°C)	: Testing not relevant or not possible due to the nature of the product.
Lower and upper explosion limit (% v/v)	: Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water	: Testing not relevant or not possible due to the nature of the
n-octanol/water coefficient	: product. Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L)	:

9.2. Other information Testing not relevant or not possible due to the nature of the

Other physical and chemical parameters : No data available.
product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions



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None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity:Based on available data, the classification criteria are not met.

Skin corrosion/irritation:Causes severe skin burns and eye damage.

Serious eye damage/irritation :Causes serious eye damage.

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

Skin sensitisation:Based on available data, the classification criteria are not met.

Germ cell mutagenicity:Based on available data, the classification criteria are not met.

Carcinogenicity:Based on available data, the classification criteria are not met.

Reproductive toxicity:Based on available data, the classification criteria are not met.

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

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

Aspiration hazard:Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects:~~Tissue-damaging~~ effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties :Not applicable.

Other information:None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.



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12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK

law. EWC code

Not applicable.

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

ID name	14.1 UN / 14.2 UN proper shipping	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR --		-	-	-	-
IMDG --		-	-	-	-
IATA --		-	-	-	-

* Packing group

** Environmental hazards

Additional information



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This product is within scope of the regulations of transport of dangerous

goods. 14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application :People under the age of 18 shall not be exposed to this product.

Demands for specific education :No specific requirements.

SEVESO - Categories / dangerous substances :Not applicable.

Additional information:Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources:The Management of Health and Safety at Work Regulations 1999.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]



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CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

CW28722

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en