



SAFETY DATA SHEET

prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH)
and Commission Regulation (EU) 2020/878

Version
1.1

Date of issue
26.02.2016

Date of revision
01.06.2021

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: REEF SALT
Chemical name: -
EC No: -
CAS No: -
Index No: -
REACH No: -
UFI No: -

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

1.2.1. Relevant identified uses

Synthetic sea salt for coral cultivation

1.2.2. Uses advised against

None

1.3. Details of the supplier of the safety data sheet

Aquaforest sp. z o.o. sp. k.
ul. Starowiejska 18
32-800 Brzesko, POLAND
info@aquaforest.eu
Tel.: +48 14 691 79 79

1.4. Emergency telephone number

Emergency number: 112
Manufacturer number: +48 14 691 79 79 (8.00 am-4.00 pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to the Regulation (EC) No 1272/2008:

Product is not classified as hazardous

Physical hazards: None
Health hazards: None
Environmental hazards: None

2.2. Label elements

According to the Regulation (WE) 1272/2008:

Pictograms:

Not applicable

Signal word:

Not applicable

Hazard statements:

Not applicable

Precautionary statement:

Not applicable

Additional labelling requirements:

EUH210 Safety data sheet available on request.



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2.3. Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XHI of REACH Regulation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product is a mixture

Name	Identifiers		Concentration [% w/w]	CLP Classification
Calcium chloride	CAS:	10043-52-4	< 3,5	Eye Irrit. 2, H319
	EC:	233-140-8		
	Index No:	017-013-00-2		
	REACH reg. No:	01-2119494219-28-XXXX		

Full text of H phrases is provided in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Contamination of the skin

Take off contaminated clothes. Wash contaminated skin with water and soap and rinse thoroughly. Consult a doctor if disturbing symptoms occur.

Contamination of the eyes

Rinse abundantly with plenty of water for at least a few minutes. Protect non-irritated eye, remove contact lenses. Avoid strong jets of water - risk of mechanical cornea damage.

Inhalation

Remove the victim to fresh air. Keep warm and calm. Consult a physician if disturbing symptoms occur.

Ingestion

Do not induce vomiting. Contact a physician if symptoms are alarming. Never put anything in the mouth of an unconscious person.

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

Acute symptoms

Inhalation: Exposure to high concentrations of dust may cause respiratory irritation.
Skin contamination: No data available
Eye contamination: possible redness, lacrimation, mechanical irritation.
Ingestion: after consumption of large quantities possible abdominal pain, nausea, vomiting, diarrhoea.

Delayed symptoms – in case of prolonged repeated contact with skin, possible drying and reddening

Effects of exposure – No data

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

Note to physician:

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.



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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Product is not flammable, adapt extinguishing media to the materials gathered in the vicinity.

Unsuitable extinguishing media:

Water jet — risk of propagation of the flame

5.2. Special hazards arising from the substance or mixture

During combustion harmful gases may be released, including calcium and boron compounds and other unidentified thermal decomposition products. Avoid inhalation of combustion products, may be hazardous to health.

5.3. Advice for firefighters

Use personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect used extinguishing media.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Ensure that only trained personnel carry out the removal of the accident and its consequences. Restrict access of unauthorised persons to the accident area until the relevant clean-up operations have been completed. In case of large releases isolate the affected area. Avoid direct contact with skin and eyes. Use personal protective equipment. Ensure adequate ventilation. Do not inhale product dust.

For emergency responders:

Follow instructions, use appropriate personal protection measures.

6.2. Environmental precautions

Do not let the product to enter ground waters, drainage system, sewage and soil. Notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

Collect spilled product mechanically avoiding dusting (e.g. by using an industrial Hoover) and place it in appropriately labelled containers. Collected material should be treated as waste and handed over for disposal. Clean and well-ventilate the contaminated area.

6.4. Reference to other sections

Personal protective equipment – section 8

Waste disposal – section 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke in the workplace. Before breaks and after work wash hands. Ensure adequate ventilation. Avoid eyes and skin contamination. Keep unused containers tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool and well ventilated place in original containers. Keep away from food, foodstuffs, animal feed and drinking water. Protect from direct sunlight. Keep away from incompatible materials (see subsection 10.5).



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7.3. Specific end use(s)

No information about uses other than those mentioned in subsection 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limit Value:

Not applicable

DNELs (Derived No Effect Levels) available for mixture components:

Not applicable

Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
Inhalation	-	-	-	-	-	-	-	-
Dermal	-	-	-	-	-	-	-	-
Oral	-	-	-	-	-	-	-	-
Eye	-	-	-	-	-	-	-	-

8.2. Exposure controls

Appropriate engineering controls

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Wash hands thoroughly before breaks and after work. Avoid eyes and skin contamination. Ensure adequate general and/or local ventilation in the workplace.

Individual protection measures

Respiratory protection:

Not required under normal operating conditions.

Hand and body protection:

Under normal conditions of work is not required. When prolonged contact is possible (eg. during operations connected with removal of leaked product) protective gloves should be worn. Recommended gloves material: nitrile rubber or other material providing sufficient level of protection.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Eye protection:

Use tightly fitting protective goggles if risk assessment indicates that it is necessary.

Protective equipment standards:

EN 140:2001 Respiratory protective devices – Half masks and quarter masks – Requirements, testing, marking.

EN 143:2004 Respiratory protective devices – Particle filters – Requirements, testing, marking.

EN 149+A1:2010 Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking.

EN 14387+A1:2010 Respiratory protective devices – Gas filter(s) and combined filter(s) – Requirements, testing, marking.

EN 374-1:2017-01 Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks.



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EN 374-2:2015-04 Protective gloves against dangerous chemicals and micro-organisms – Part 2: Determination of penetration resistance.

EN 16523-1+A1:2018-11 Determination of material resistance to permeation by chemicals – Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact.

EN 166:2005 Personal eye protection. Specifications.

EN 14605+A1:2010 Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).

EN ISO 20344:2012 Personal protective equipment – Test methods for footwear

Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

PNECs (Predicted No Effect Concentrations) for mixture components:

Not applicable

Environment compartment	PNEC
Freshwater:	-
Intermittent releases (freshwater):	-
Marine water:	-
Intermittent releases (marine water):	-
Sewage treatment plant:	-
Sediment (freshwater):	-
Sediment (marine water):	-
Air:	-
Soil:	-
Hazard for Predators:	-


SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Solid / powder
Colour	White
Odour	Characteristic, faint
Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not determined
Lower and upper explosion limit	Not determined
Flash point	Not applicable
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not determined
pH	Not determined
Kinematic viscosity	Not applicable
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not determined
Density and/or relative density	Not determined
Relative vapour density	Not determined
Particle characteristics	Not determined

9.2. Other information

Information with regard to physical hazard classes

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No additional data regarding physical hazards.

Other safety characteristics

No additional data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product does not show reactivity under recommended conditions of storage and use.

10.2. Chemical stability

The product is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid elevated temperatures, sources of fire and heat.

10.5. Incompatible materials

Acids, bases.

10.6. Hazardous decomposition products

Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.

Acute toxicity:

Acute Oral Toxicity: product does not met criteria for classification.
 Acute Dermal Toxicity: product does not met criteria for classification.
 Acute Inhalation Toxicity: product does met criteria for classification.

Skin corrosion/irritation:

based on available data, the classification criteria are not met.

Serious eye damage/irritation:

based on available data, the classification criteria are not met.

Respiratory or 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

No data



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.

Based on available data classification criteria are not met – product is not classified as hazardous to aquatic environment

12.2. Persistence and degradability

Product is a mixture of inorganic substances — it does not undergo biodegradation. Product undergoes hydrolysis.

12.3. Bioaccumulative potential

Sodium fluoride contained in the product shows little bioaccumulation potential.

12.4. Mobility in soil

Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Annex XIII of REACH regulation

12.6. Endocrine disrupting properties

No data

12.7. Other adverse effects

No data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose of in accordance with valid regulations. Do not pour into drains. Store the mixture in its original container. Do not mix with other waste. The waste code should be assigned at the place of its production.

Disposing of the packaging:

Dispose of packaging waste in accordance with valid regulations. Do not mix with other waste. Dispose of packaging to an authorised entity.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

SECTION 14: TRANSPORT INFORMATION

Not applicable, product is not classified as dangerous during road, sea, air transport.

14.1. UN number or ID number

ADR	IMDG Code	IATA DGR
-	-	-

14.2. UN proper shipping name

ADR	IMDG Code	IATA DGR
-	-	-

14.3. Transport hazard class(es)

ADR	IMDG Code	IATA DGR
-	-	-



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14.4. Packing group		
ADR	IMDG Code	IATA DGR
-	-	-

14.5. Environmental hazards		
ADR	IMDG Code	IATA DGR
-	-	-

14.6. Special precautions for user		
ADR	IMDG Code	IATA DGR
-	-	-

14.7. Maritime transport in bulk according to IMO instruments		
-	-	-

SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

European agreement concerning international road transport of dangerous products (ADR)

15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product.

SECTION 16: OTHER INFORMATION


Explanation of abbreviations and acronyms used in safety data sheet

Eye Irrit. 2 H319 Causes serious eye irritation.

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road under framework Directive 94/55/EC, as amended

ATE Acute Toxicity Estimate: acute toxicity values are expressed as (approximate) LD50 (oral, dermal) or LC50 (inhalation) values or as ATEs.

CAS Chemical Abstracts Service

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CPR Cardio-pulmonary resuscitation

DNEL derived no-effect level

EC number unique seven-digit identifier assigned to substances for regulatory purposes withing European Inventory of Existing Commercial Chemical Substances (EINECS)

EC50 median effective concentration

EINECS European Inventory of Existing Commercial Chemical Substances

GHS (United Nations) Globally Harmonised System of Classification and Labelling of Chemicals: it defines the criteria internationally agreed by the United Nation Economic and Social Council (UN ECOSOC) for the classification and labelling of hazardous substances and mixtures

ICAO International Civil Aviation Organisation, refers to Annex 18 to the Convention on International Civil Aviation The Safe Transport of Dangerous Goods by Air

IMDG International Maritime Dangerous Goods Code for the transport of dangerous goods by sea

IUPAC International Union of Pure and Applied Chemistry

LOEC Lowest Observed Effect Concentration

LD50 Lethal Dose; dose at which 50% of the animals will be expected to die.

LC50 Lethal Concentration; standard measure of the toxicity of the surrounding medium that will kill half of the sample population of a specific test-animal in a specified period through exposure via inhalation

NOEC No Observed Effect Concentration

M factor Multiplying factor

NICNAS (Australia) National Industrial Chemicals Notification and Assessment Scheme

NIOSH (United States) National Institute of Occupational Safety and Health

OECD Organisation for Economic Cooperation and Development

OSHA (United States) Occupational Safety and Health Administration

PBT Persistent, bioaccumulative and toxic

PNEC Predicted No Effect Concentration

(Q)SAR (Quantitative) Structure-Activity Relationships

RTGD (United Nations) Recommendations on the Transport of Dangerous Goods

RTECS Registry of Toxic Effects of Chemical Substances

SVHC Substance of Very High Concern

Toxline Toxicology Literature Online database

TOXNET Toxicology Data Network

UFI Unique Formula Identifier

US EPA United States Environmental Protection Agency

vPvB very Persistent and very Bioaccumulative

This SDS was prepared in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of the product was based on the content of ingredients and according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008.

Training

Before handling with the product, the user should be familiar with the principles of health and safety regarding the handling of chemicals, and in particular undergo appropriate workplace training.


References to key literature and data sources

The safety data sheet for this product has been create on the basis of a safety data sheets of product components, literature data, online databases and possessed knowledge and experience, taking into account the currently applicable to actual legislation.

Changes from the previous version of the safety data sheet:

Version 1.1 – adaptation to requirements of regulation 2020/878, updating of data in Sections 2, 8, 15, 16.

The above information is based on currently available data characterizing the product as well as the experience and knowledge possessed by the manufacturer in this topic. It do not constitute a quality description of the product or promise of specific properties. It should be treated as an aid for safe handling during transport, storage and use of the product. This does not release the user from liability for incorrect use of the above information and from compliance with all legal regulations in this area.

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