

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

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

1.1 Product identifier

Name of the substance	Salt for seawater/reef aquariums
Trade name	ARKA Premium Reef Salt
Registration number (REACH)	not applicable
EC number	Not applicable
CAS number	not applicable
Other designations	
Product number	SALTR

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

Relevant identified uses Uses by consumers

Salt mixture primarily for marine aquariums

1.3 Details of the supplier of the safety data sheet

ARKA Biotechnologie GmbH
Mühlach 53-55 90552
Röthenbach Germany

Phone: +49 (0)911 5698610 00
Fax: +49 (0)911 5698610 29
E-mail (knowledgeable person)

info@arka-biotech.de

1.4 Emergency number

Emergency information service

ARKA Biotechnology GmbH
Available by phone Mon.-Fri. from 8:00-17:00
Phone: +49 (0)911 5698610 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

The substance is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2 Labeling elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP)

The substance is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

2.3 Other dangers

Not subject to labeling. Please observe the information in this safety data sheet.

SECTION 3: Composition/information on ingredients

3.1 Fabrics

Substances / Mixture	This product is a Mixture of different salts.
Ingredients acc. (EC)No.1272/2008	Calcium chloride
Classification according to (EC)No.	Eye irritation, Category 2, H319
EC number	233-140-8
CAS number	10035-04-8
Purity	≤100 %
Share	<10%
Sum formula	CaCl ₂ *2H ₂ O

SECTION 4: First aid measures

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

4.1 Description of first aid measures

General notes

Remove contaminated clothing and clean with plenty of water.

After inhalation

Provide fresh air. If symptoms persist, consult a doctor.

After contact with the skin

Wash skin with water/shower. If symptoms persist, consult a doctor.

After contact with the eyes

Keep eyelids open and rinse thoroughly with clean, running water for at least 15 minutes. Remove any contact lenses if possible. Continue rinsing. Consult a doctor.

After ingestion by swallowing

Rinse out mouth and drink plenty of water. Consult a doctor if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Information on immediate medical assistance or special treatment

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Coordinate extinguishing measures with the surroundings. Product itself does not burn. Alcohol-resistant foam. Dry extinguishing agent. Carbon dioxide. Water spray.

Unsuitable extinguishing agents

None.

5.2 Special hazards arising from the substance or mixture

Non-flammable.

Hazardous combustion products

Can be released in the event of fire: Hydrogen chloride (HCl), chlorine gas (Cl₂), sulphur oxides.

5.3 Instructions for firefighting

Fight the fire with the usual precautions from an appropriate distance. Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing. Collect contaminated extinguishing water separately. Do not allow extinguishing water to enter sewers and waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Staff not trained for emergencies

Use personal protective clothing. Avoid dust formation. If dust or aerosol is generated, use respiratory protection with approved filter type. Keep away from sources of ignition - No smoking.

Emergency services

Respiratory protective equipment must be worn when exposed to vapors, dusts, aerosols and gases.

Personal protective equipment: see section 8.

6.2 Environmental protection measures

Prevent from entering the sewage system or surface and ground water. Dispose of in accordance with official regulations.

6.3 Methods and material for retention and cleaning

Instructions on how to prevent spilled materials from spreading

Pick up mechanically. Avoid dust formation. Rinse with plenty of water; treat the absorbed material according to the disposal section.

6.4 Reference to other sections

Safe handling: see chapter 7.

Information on personal protective equipment: see chapter 8.

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

Information on disposal: see chapter 13.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Recommendations

Instructions for safe handling:

Avoid dust and aerosol formation. Ensure sufficient air exchange and/or extraction in the working areas. Avoid contact with eyes and skin. Do not inhale dust.

Information on fire and explosion protection and the fire class:

No special precautions required. This product is not flammable.

7.2 Conditions for safe storage, taking into account incompatibilities

Store in a cool and dry place. Store in a place protected from the weather. Keep container tightly closed in a dry place protected from light. Product is hygroscopic. Avoid moisture. Protect against water.

Suitable material for containers/systems: e.g. polyethylene (PE).

Keep away from food and drink.

Storage class according to TRGS 510: 13

Incompatible substances or mixtures

Keep away from food and animal feed. Do not store together with metals.

7.3 Specific end uses

When dissolved in water, the composition of seawater is reproduced.

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Additional information on limit values

None.

8.2 Exposure controls and monitoring

8.2.1 Protective and hygiene measures

Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working. Keep away from food, drink and animal feed. Remove soiled, soaked clothing immediately. Do not inhale dust. Avoid contact with skin and eyes.

8.2.2 Individual protective measures (personal protective equipment)

Eye/face protection

Wear safety goggles in case of heavy dust formation. Avoid contact with the eyes.

Skin protection

Wear light protective clothing. Remove contaminated clothing and wash before reuse.

Hand protection

Rubber gloves for prolonged contact.

Type of material

Nitrile rubber, butyl rubber, fluororubber, chloroprene.

Material thickness

0.11 mm.

Breakthrough time of the glove material

>480 minutes (permeation level: 6)

Other protective measures

Please observe the information provided by the glove supplier with regard to permeability and breakthrough time. Also take into account the specific local conditions under which the product is used, such as risk of cuts, abrasion and duration of contact.

Respiratory protection

Not required if room is well ventilated. Use FFP1 particle-filtering half mask in case of dust formation.

8.2.3 Limiting and monitoring environmental exposure

Use suitable containers to avoid contamination of the environment. Prevent penetration into the sewage lization or into surface and ground water.

SECTION 9: Physical and chemical properties

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

9.1	Information on basic physical and chemical properties Appearance	
	Physical state	solid (powder)
	color	whitish to grayish
	Odor	characteristic
	Other physical and chemical parameters	
	pH value	8.3-8.5
	Melting point/freezing point	not available
	Spontaneous combustion	not spontaneously flammable
	Flash point	not applicable
	Evaporation ratenot	available
	Flammability (solid, gaseous)	not flammable
	Explosion limits of dust/air mixtures	not explosive
	Vapor pressureNot	available
	Density	1.022 /36g in 1000ml. water at 25°C)
	Bulk density	not available
	Solubility(ies)	
	Water solubility	Soluble
	Partition coefficient	
	n-octanol/water (log KOW) Auto-ignition	No information available
	temperature Viscosity	not determined
	Explosive properties	not relevant (solid) none
	Oxidizing properties	not determined
9.2	Other information	
	Product is hygroscopic.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
No information available.
- 10.2 Chemical stability**
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Avoid dust formation. Protect from heat, humidity and water. Store in a dry place.
- 10.5 Incompatible materials**
Corrosive to various metals.
- 10.6 Hazardous decomposition products**
With strong acids: Hydrogen chloride (HCl)
With oxidizing agents: Chlorine gas (Cl₂), sulfur oxides

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**

There are no toxicological findings on this mixture.
Classification according to GHS (1272/2008/EC, CLP) Acute toxicity
Calcium chloride CAS No.: 10035-04-8
 EC no.: 233-140-8

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

Exposure path	End point	Value	Species	Source
orally	LD50	1000 mg/kg	Rat	IUCLID

Irritant and corrosive effect

Skin: Slight irritant effect possible. Has a degreasing effect on the skin.
Eyes: Irritant effects possible.

Sensitizing effects

No sensitizing effect known.

Specific target organ toxicity at single exposure

No information available.

Other information on tests

It may cause irritation to the eyes and respiratory tract.

Other information

The irritant effect is intensified in combination with moisture.

If swallowed, irritation of the internal organs.

Irritating to nose and throat with prolonged exposure.

SECTION 12: Environmental information

12.1 Toxicity

(Acute) aquatic toxicity

Calcium chloride CAS No.: 10038-04-8

EC no.: 233-140-8

Subacute to chronic toxicity:

Dose	Species	Source	Exposure period
144 mg/l	Daphnia magna	IUCLID	EC50/48h
3,130 mg/l	Algae	IUCLID	EC50/120h
10,650 / ^{mg} l	Sunfish	IUCLID	LC50/96h

12.2 Persistence and degradability

Inorganic product; WGK1; cannot be eliminated from water by biological purification processes.

12.3 Bioaccumulative potential

No information is available.

12.4 Mobility in soil

No information is available.

12.5 Results of the PBT and vPvB assessment

No information is available.

12.6 Other harmful effects

According to the information available to us, the product does not have any harmful effects on the environment if handled properly and used as intended.

Water hazard class WGK = 1 slightly hazardous to water

Must not be allowed to enter the sewage system, surface water or groundwater in large undiluted quantities.

SECTION 13: Disposal instructions

13.1 Waste treatment processes

Product residues must be disposed of in accordance with the Waste Directive 2008/98/EC and national and

Premium Reef Salt

Version number: GHS 1.0

Date of creation: 07.08.2018

regional regulations .

Information relevant for waste treatment

Keep only in the original container. Recycling/recovery of inorganic substances.

Information relevant for disposal via wastewater

Do not allow high concentrations to enter drains.

Waste treatment of containers/packaging

Dispose of in accordance with local regulations. Completely emptied packaging can be recycled. Contaminated packaging must be treated in the same way as the substance.

Waste code / waste name according to the Waste Catalogue Ordinance

06 03 14; solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13.

SECTION 14: Transport information

14.1	UN number	No dangerous goods as defined by national and international transport regulations (not subject to transport regulations)
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard classes	-
	Class	
14.4	Packaging group	not relevant
14.5	Environmental hazards	none (not hazardous to the environment according to dangerous goods regulations)
14.6	Special precautions for the user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable. No dangerous goods according to the regulation.

SECTION 15: Legislation

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

EU regulations

Additional notes

The substance is not classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP], Directive 67/548/EEC, 1999/45/EC and does not require labeling.

National regulations (Germany)

- **Ordinance on Installations for the Handling of Substances Hazardous to Water**

(**AwSV**) Water hazard class (WGK): 1 (slightly hazardous to water)

- **Storage**

Storage class (LGK): 13 (non-combustible solids)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of the abbreviations used

Premium Reef Salt

Version number: GHS 1.0

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ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Occupational exposure limit
CAS	Chemical Abstracts Service (database of chemical compounds and their unique key, the CAS Registry Number)
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction (carcinogenic, mutagenic or toxic for reproduction)
DFG	German Research Foundation List of MAK and BAT values, Senate Commission for the Examination of Health Hazardous Substances, Wiley-VCH, Weinheim
DMEL	Derived minimal effect level (derived exposure level with minimal impairment)
DNEL	Derived No-Effect Level (derived exposure level without impairment)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
Index no.	The index number is the identification code given in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
KZW	Short-term value
LGK	Storage class according to TRGS 510, Germany
MARPOL	International Convention for the Prevention of Pollution from Ships (abbreviation of "Marine Pollu- tant")
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration (estimated no-effect concentration)
ppm	Parts per million (parts per million)
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (Registration, Evaluation, Authorization and Restriction of Chemicals)
SMW	Shift average
TRGS	Technical Rules for Hazardous Substances (Germany)
TRGS 900	Occupational exposure limits (TRGS 900)
VbF	Ordinance on flammable liquids (Austria)
vPvB	Very Persistent and very Bioaccumulative (very persistent and very bioaccumulative)

Hazard statements referred to in section 2 and 3 According to Regulation (EC) No: 1272/2008:

- Eye irritant. 2; H319- serious eye irritation Cat. 2; Causes serious eye irritation.

Recommended use and restrictions:

Preparation (concentrate) for the production of seawater for marine aquariums.

Important literature and data sources

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU-GHS)

Disclaimer

The information is based on our current state of knowledge. However, it does not constitute a guarantee of product properties and does not establish a legal relationship.

The user of this product is obliged to provide all persons who come into contact with the product with the information required for occupational safety, environmental protection and health protection in the form of this safety data sheet.