Safety Data Sheet Sea Dry

Revision 05 from 31/10/2013, Printing date: 31/10/2013
According to 1907/2006/EG, Article 31, Trade name: Sea Dry

Silica-gel-shop.nl

Slauerhoffstraat 25 - 7552 ZW Hengelo
info@silica-gel-shop.nl – www.silica-gel-shop.nl

1 Identification of the substance / mixture and of the company

Product identifier

Trade name
Sea Dry

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

Application of the substance / the mixture
Desiccant

Details of the supplier of the safety data sheet

Silica-gel-shop.nl

Slauerhoffstraat 25
7552 ZW Hengelo

info@silica-gel-shop.nl
www.silica-gel-shop.nl

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS07

Irritation to eyes, 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi Irritating
R36 Eye irritation

Information pertaining to particular dangers for man and environment
Not required

Classification system
The classification was made according to the latest edition of substances lists of the EC, expanded upon from company and literature data.

Label elements

Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word
Caution

Hazard-determining components of labelling
Not applicable.

(Continued on page 2)

(Continued from page 1)

Hazard statements
H319 Causes serious eye irritation.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Other hazards

Results of PBT and vPvB assessment

PBT	Not applicable.
vPvB	Not applicable.

3 Composition/information on ingredients

Chemical characterization
Mixture

Description
Mixture of substances listed below.

Dangerous Components

CAS: 10043-52-4 EINECS: 233-140-8	Calcium chloride Xi R36	Xi R36 Eye irritation. 2, H319	>50%
CAS: 9005-84-9 EINECS: 232-686-4	Starch		10-40%

Additional references
For the wording of the listed hazard warnings refer to section 16.

4 First aid measures

Description of first aid measures

General information
Immediately call your doctor.

After inhalation
Remove victim from the hazard zone, but at the same time protect yourself.
Remove to fresh air; if breathing is difficult, give oxygen, if possible.
Seek medical treatment in case of complaints**.**

After skin contact
Immediately remove contaminated clothing and wash affected areas of skin with plenty of water and soap. In case of a continuous skin irritation consult a doctor.

After eye contact
Rinse opened eye for 10 minutes under running water. In case of a continuous eye irritation consult a doctor.

After swallowing
Rinse mouth with water, do not swallow, drink plenty of water (maximum of 2 glasses). Immediately consult a doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed
No further relevant information available.

(Continued on page 3)

(Continued from page 2)

Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire fighting measures

Extinguishing media

Suitable extinguishing media
Product is non-flammable, use fire-extinguishing media appropriate for surrounding materials.

Special hazards arising from the substance or mixture

On burning the product might release
Hydrogen chloride (HCl)

Advice for fire fighters

Protective equipment
When product is part of a larger fire dangerous gases and decomposition processes might occur.
Wear self-contained breathing apparatus.

Further information

Combustion residues and contaminated water must be discarded in accordance with the official regulation.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid any dust formation.
Avoid breathing the dust.
Avoid contact with the substance.
Sufficient venting.

Environmental precautions
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up
Pick up mechanically.
Avoid any dust formation.
Transfer to separate suitable containers for recovery or disposal.
Clean manually.

Reference to other sections
See section 7 for safe handling information.
See section 8 for information about personal protective equipment.
See section 13 for disposal information.

7 Handling and storage

Handling

Precaution for safe handling
Store in cool and dry conditions, in properly closed containers.
Avoid any dust formation.
Not avoidable dust formations are have to be removed regularly.
Avoid eye and skin contact.

Information about fire- and explosion protection
The product ist non-flammable.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles
No special requirements.

Information about storage in one common storage facility
Not required.

(Continued on page 4)

Further information about storage conditions *(Continued from page 3)*
Store in dry conditions. Protect from humidity and water. Product is hygroscopic.

Recommended storage temperature
+15 - +25**°C**

Storage group
10-13

Classification according to regulation for industrial safety (BetrSichV)
Not required

Specific end-use application
Dehumidifier

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information
The lists valid during the making were used as basis.

Exposure Controls

Additional information about design of technical facilities
No further data.

Personal protective equipment

General protective and hygienic measures
Keep away from unclosed food, drink and animal food.
Take off contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with skin and eyes.

Respiratory protection
In exceptional situations (e.g. unintended release) respiratory protection is required. Respiratory equipment with particle filter type P2 or P3, colour code white

Protection of hands

Protective gloves

The glove material has to be impermeable and resistant to the product / the substance / the mixture.
Due to missing tests no recommendation to the glove material can be given for the product / the mixture / the chemical mixture.
Selection of glove material on consideration of the break through times, permeation rates and the degradation.

The material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Continued on page 5)

(Continued from page 4)

For permanent contact gloves made of the following materials are suitable
Nitrile rubber
Recommended material thickness: ≥ 0,11 mm
Permeation value: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable
Nitrile rubber
Recommended material thickness: ≥ 0,11 mm
Permeation value: Level ≥ 480 min

Eye protection

Tightly sealed goggles

Body protection
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

9 Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance **Form** **Colour**	 Granulate white
Odour	Odourless
Odour threshold	Undefined
Ph-value at 20°C	Salt: 8-10, Starch: 6,0-7.5

Change in condition

Melting point / Melting range **Boiling point / Boiling range**	Salt: 772 °C Salt: 1600 °C
Flash point	Inapplicable
Flammability (solid, gaseous)	The substance is non-flammable
Igniting temperature **Decomposition temperature**	Starch: 400 °C Starch: 200 °C
Self-igniting	Product is not self-ingiting
Danger of explosion	Product does not present an explosion hazard
Vapour pressure	Inapplicable
Density	Salt: 2,15 g/m^3, Starch: Undefined
Relative density	Undefined
Vapour density	Inapplicable
Rate of vaporization	Inapplicable
Solubility in water at 20 °C at 90 °C	 Salt: 740 g/l Starch:50 g/l

(Continued on page 6)

(Continued from page 5)

Segregation coefficient (n-octanol/water)	Undefined
Viscosity **Dynamic** **Kinematic**	 Inapplicable Inapplicable
Solvent content **Organic solvents** **Water** **Solid content**	 0,0% 0,0% 100 %

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided
No decomposition if used and stored according to specifications.

Possibility of hazardous reactions
The subject can polymerize upon contact wirh Methylvinylether.
The subject can react in dangerous way with water.

Hazardous decomposition products
No decomposition if used and stored according to specifications.

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

10043-52-4 Calcium chlorid		
Oral	LD50	1000 mg/kg (rat)
Dermal	LD50	2630 mg/kg (rat)
9005-84-9 Starch		
Oral	LD50	>5000 mg/kg (rat)

Primary irritant effect
on the skin: No irritating effect
on the eyes: Irritating effect

Sensitization
No sensitizing effects known.

12 Ecological information

Toxicity

Aquatic toxicity
No further information available.

Persistence and degradability
No further information available.

(Continued on page 7)

(Continued from page 6)

Behaviour in environment systems

Bio accumulative potential
No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Additional ecological information

General notes
Water hazard class 1 (self declared): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects
No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation
Disposal as non hazardous waste according to official regulations.
European Waste Classification for Statistics
Waste entry 06 03 14:

- Wastes from inorganic chemical processes
- Wastes from the manufacturing, formulation, supply and use of salts and their solutions and metallic oxides
- Solid salts and solution without cyanides and heavy metals

The waste code numbers mentioned are recommendations based on the probable use of the product.

14 Transport information

Land transport ADR/RID and GGVSEB (cross-border/inland)

ADR/RID-GGVSEB class
No hazardous good.

Maritime transport IMDG/GGVSea

IMDG/GGVSea class
No hazardous good.

Marine pollutant
No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA-Class
Not Restricted.

Additional information

Environmental risk
Not applicable.

Special precautions for the user
Not applicable.

Transport/Additional information
Not dangerous according to the above specifications.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15 Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word
Caution.

Hazard-determining components of labelling
Not applicable.

Hazard statements
H319 Causes serious eye irritation.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

National rules

Classification according to regulation for industrial safety (BetrSichV)
Not required.

Water hazard class
Water hazard class 1 (self declared): slightly hazardous for water.

Chemical safety assessment
A chemical safety assessment is not performed.

16 Other information

This information is based on our knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant sentences
H319 Causes serious eye irritation
R36 Eye irritation

Department issuing MSDS
*

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
EINECS	European Inventory of Existing Commercial Chemical Substances

(Continued on page 9)

(Continued from page 8)

IATA	International Air Transport Association
IATA-DGR	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
ICAO-TI	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG	International Maritime Code for Dangerous Goods
GGVSEB	Ordinance on the Transport of Dangerous Goods by Road, Rail and Inland Waterways
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
PBT vPvB	persistent, bioaccumulative and toxic substances, very persistent, very bioaccumulative substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail

General information
Changes compared to the last version are marked as follows at the left side: (*). This version replaces all previous versions.