



SUPER DRY

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 1/8

SAFETY DATA SHEET

Super Dry Desiccants

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY /UNDERTAKING

1.1 Product identifier: Super Dry Desiccants

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Desiccant to be used in transport containers

1.3 Details of the supplier of the safety data sheet:

Super Dry Scandinavia AB

Lilla Strandvägen 5

444 31 Stenungsund

Phone: +46 (0)303-50660

www.superdry.se

Contact person: Pär Svensson
info@superdry.se

1.4 Emergency telephone number: Call the local poison information center.
In Sweden call: 112, request the poison information center
+46 (0)8-33 12 31 (for none emergencies)

For general questions regarding the product contact:
Pär Svensson, +46 (0)303-50660

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Eye Irritant (Category 2), H319 Causes serious eye irritation

2.2 Label elements

Labeling according to directive (EC) no 1272/2008

Signal word: Warning

Contains: Calcium chloride

Hazard statement: H319 Causes serious eye irritation.



**SUPERDRY**

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

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Issued: 2017-01-23

Page 2/8

Precautionary statement: P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously 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.

2.3 Other hazards

No information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Classified substances according to (EC) no 1272/2008 and 1999/45/EC

	EG-No	CAS-No	Weight %	Classification*
Calcium chloride	233-140-8	10043-52-4	59-65	Eye Irrit. 2; H319 Xi; R36
Starch	232-679-6	9005-25-8	31-33	
Polyethylene		9002-88-4	6-8	

*For an explanation of hazard statements and risk phrases see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General: The desiccant component is sealed inside a bag. The following measures apply to exposure to the desiccant inside the bag. For example, if the packaging is torn.

Eye contact: Remove contact lenses and open eyes wide apart. Flush with large amounts of tempered (20°C - 30°C) water for 15 minutes. Contact a physician or a hospital.

Skin contact: Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Do not use a solvent. If skin irritation arises seek medical attention.

Inhalation: Move the exposed person to fresh air. Keep warm and in rest. Get medical attention if any discomfort arises or if in doubt.

Indigestion: If very small amounts: Rinse the mouth with water. If larger amounts: Induce vomiting and get immediate medical attention.



SUPER DRY

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 3/8

4.2 Most important symptoms and effects, both acute and delayed

The product is irritation to the eyes and the skin. The most common exposure mode is via inhalation of dust which is irritating to the respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable media: Foam or water spray. Smaller fires can be fought with carbon dioxide or powder.

Unsuitable media: Water jet.

5.2 Special hazards arising from the substance or mixture

A mixture of water and the product can become very slippery.

5.3 Advice for firefighters

Firefighters should wear complete protective equipment.

Additional information:

Adapt the firefighting to what is in the surrounding area. Collect contaminated water. Prevent contaminated water from entering soil/sewers/ watercourses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use proper personal protective equipment. Don't inhale dust. Avoid contact with eyes, skin and clothing. The product becomes slippery and hard to handle when wet.

6.2 Environmental precautions

Prevent the product from entering soil, drains and watercourses.

Notify the appropriate authorities if larger spills occur.

6.3 Methods and material for containment and cleaning up

Spill is easiest to handle when dry. Sweep up and collect dry matter. Absorb wet product with vermiculite or similar material and store in an appropriate container for disposal. Air drying of the absorbent product can take place before disposal. Floors and similar surfaces from wet product with water to reduce the further risk of slipping.

6.4 Reference to other sections

See heading 13 for disposal information. See sections 7 for handling and section 8 for personal protection measures.

7. HANDLING AND STORAGE



SUPERDRY

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 4/8

7.1 Precautions for safe handling

Make sure the ventilation is adequate. Avoid inhalation of dust. Don't eat or drink when handling the product. Keep away from children. Wash hands after use. Wash contaminated clothing. Use personal protection (see section 8).

7.2 Conditions for safe storage, including any incompatibilities

Store the product below 46°C in dry locations with good ventilation. Keep container tightly closed. Protect the container from physical damage. Keep separate from incompatible materials and foodstuff.

7.3 Specific end use(s)

No information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

For Sweden the following occupational exposure limits apply according to the statute AFS 2011:18 of the Swedish Work Environment Authority:

CAS-no:	Substance:	Level limit value (LLV):		Ceiling limit value (CLV):	
		ppm	mg/m ³	ppm	mg/m ³
-	Dust, inorganic – inhalable dust *	-	10	-	-
-	Dust, inorganic – respirable dust *	-	5	-	-

* **Inhalable dust** refers to the dust fraction defined in the Swedish standard SS-EN 481, Work Atmospheres – Size fraction definition for measurement of airborne particles, Edition 1, 1993, point 2.3 and which has a sampling characteristic in accordance with point 5.1.
Respirable dust refers to that dust fraction which is defined in the Swedish standard SS-EN 481, Work Atmospheres – Size fraction definition for measurement of airborne particles, Edition 1, 1993, point 2.11 and which has a sampling characteristic in accordance with point 5.3.

8.2 Exposure controls

- General:** Specific security measures are normally not required, unless the bag contents are exposed.
- Respiratory equipment:** If correctly handled under normal conditions a respiratory protection should not be necessary. If insufficient ventilation or risk of dusting use a self-contained respiratory device or a mask with particle filter (type P3).
- Hand protection:** Use durable protective gloves with long sleeves (according to EN 374). Likely suitable glove material is neoprene or nitrile rubber with a thickness above 0,5 mm. Contact a representative of the glove manufacturer to determine what glove is suitable if there are any doubts.
- Eye protection:** Tightly sealed goggles or a face shield compliant with local regulations. Consult with the supplier of safety gear if there is any uncertainty.



SUPER DRY

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 5/8

- Skin protection:** Wear protective clothing to prevent repeated or prolonged skin contact. Special safety clothing is not required unless the contents inside the packaging is exposed.
- General:** Do not eat, drink or smoke while working. Wash hands thoroughly with soap and water after handling. Wash contaminated clothing before reuse.
- Ventilation:** Ensure good ventilation, use respiratory protection or local exhaust ventilation if general ventilation is inadequate.

Special equipment at the workplace

Washbasin / sink must be available. Facilities for rinsing eyes should be available in connection with the handling point. Additional protective equipment (eg, apron, face shield, etc.), depending on use.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General characteristics:

- Shape: Small hygroscopic granules mixed with off-white powder.
Color: White
Odor: None

Physical / chemical properties relevant to health, safety and environment:

<i>Characteristic</i>	<i>Calcium chloride</i>
Physical state	Solid
Boiling point	1600°C
Water solubility	Readily soluble
Vapor pressure (mm Hg)	not applicable
Vapor density	not applicable
Density	2.15 g/cm ³ at 20°C
Melting point	782°C
Evaporation rate	not applicable
pH	8-9 in water solution

9.2 Other information

No information.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** The product is stable under recommended handling and storage conditions.
- 10.2 Chemical stability:** The product is chemically stable under recommended handling and storage conditions.
- 10.3 Possibility of hazardous reactions:** Sulfuric acid (gives rise to hydrogen chloride gas which is corrosive, irritating and reactive).



SUPER DRY

SUPERIOR CONTAINER

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Issued: 2017-01-23

Page 6/8

Water-reactive materials such as metallic sodium (causing an exothermic reaction).

Methyl vinyl ether (starts runaway polymerization reaction).

Sodium chloride reacts with zinc in the presence of water.

10.4 Conditions to avoid:

No specific conditions.

10.5 Incompatible materials:

Strong oxidizers. Strong reducing agents. Acids. Metals.

10.6 Hazardous decomposition products: None known under recommended handling and storage conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There are no data available for the product as such. The information below applies to components.

General information about the product:

Skin contact: May cause slight irritation.

Inhalation: Dust may irritate the respiratory system and cause throat irritation and coughing. Also, applies to mist from the product dissolved in the liquid.

Eye contact: Strong eye irritant.

Ingestion: Ingestion can cause irritation of the mouth, esophagus and stomach / intestinal tract.

Acute toxicitet

Calcuim Chloride

LD₅₀ Oral rat: 2301 mg/kg body weight

LD₅₀ Dermal rabbit: >5000 mg/kg body weight

OECD 405 eye irritation test, rabbit: Strong irritant (anhydrous calcium chloride).

Sensitizing effect:

No known sensitizing effect.

Carcinogenic, mutagenic and reproductive toxic effects:

Components not listed as carcinogens by IARC, NTP, OSHA or ACGIH. Reproductive toxic or mutagenic effects are not expected.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specific ecological information does not exist for the product. The ecotoxicological assessment has been made based on information available to the individual components.

Calcium chloride

LC₅₀ Fish 96h, OECD 203: 4630mg/l

EC₅₀ Daphnia 48h, OECD 202: 2400 mg/l

EC₅₀ Algae 72h, OECD 201: 2900 mg/l



SUPER DRY

SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 7/8

12.2 Persistence and degradability

No data available. The product, however, consists mainly of inorganic compounds which are not biodegradable.

12.3 Bioaccumulative potential

No data available. Not expected to bioaccumulate.

12.4 Mobility in soil

No data available. The product, however, is water soluble.

12.5 Results of PBT and vPvB assessment

The components of this product does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General: Within the European Union directive 91/689/EEC should be followed. Disposal, transport, storage and handling should be in accordance with local legislation/rules (in Sweden SFS 2011:927 The Waste Ordinance). Waste from the product must not be allowed to contaminate soil, water or environment.

No EWC-code can be determined for the product since the way it is used can affect the classification. A EWC-code that is correct for each use should be determined in collaboration with local authorities/administration.

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods according to ADR/RID/IMO/DGR.

14.1 UN number: -

14.2 UN proper shipping name: -

14.3 Transport hazard class(es): -

14.4 Packing group: -

14.5 Environmental hazards: -

14.6 Special precautions for user: -

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.



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SUPERIOR CONTAINER

ISO 9001: 2000 CERTIFIED BY LLOYDS

Product: Super Dry Desiccants

Issued: 2017-01-23

Page 8/8

15. REGULATORY INFORMATION

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

EC no 453/2010

EC no 1907/2006 (REACH)

EC no 1272/2008 (CLP)

EC no 67/54/EEC

Directive 1999/45/EC

KIFS 2005:7 Swedish Chemical agency's Classification and Labelling Regulations

KIFS 2008:2 Swedish Chemical agency's Chemical Products and Biotechnical Organisms Regulations

Directive 91/689/EEC on hazardous waste

SFS 2011:927 The Waste Ordinance

AFS 2011:18 The regulations on Hygiene Limit Values and measures against air pollution

15.2 Chemical safety assessment

Not carried out.

16. OTHER INFORMATION

Explanations of the hazard statements as defined in Section 2:

H319 - Causes serious eye irritation

History:

2015-10-02: Adapted from the Swedish safety data sheet with issue date 2015-07-03.

2015-10-06: Complemented with classification according to 1999/45/EC

2016-12-18: Updated eco-tox data. Clarification in section 4 that the information concerns contact with the desiccating agent and not the outer packaging. Clarification regarding reactivity in Section 10.

2017-01-23: Concentration limits in section 3 updated.