



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

**1.1. Product identifier**

Product name : LAFITA MOISTURE ABSORBER  
Product code : LAF-002  
Chemical name : Calcium chloride, dihydrate  
Registration nr. : 01-2119494219-28  
CAS nr. : 10035-04-8

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

Application : SU21 Consumer product. PC2 Adsorbent.

**1.3. Details of the supplier of the safety data sheet**

Supplier : Dovox B.V.  
Computerweg 3  
3542 DP UTRECHT, The Netherlands  
Telephone : +31-30-7116 824  
Fax : +31-30-3100 141  
E-mail : info@dovox.nl  
Website : www.dovox.nl

**1.4. Emergency telephone number**

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:  
NL - Telephone : +31-30-7116 824 (During office hours only)  
EMERGENCY TELEPHONE NUMBER (for DOCTORS only):  
National Poisons Information Service +44-844 892 0111 (24/7)

**SECTION 2 HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

CLP classification : Eye irritation, category 2.  
(1272/2008/EC)  
Human health hazards : Causes serious eye irritation.  
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Hygroscopic.  
Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

**2.2. Label elements**

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Warning  
H- and P-phrases : H319 Causes serious eye irritation.  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 eyes Wear eye protection/face protection.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 + P338  
 P337+P313 If eye irritation persists: Get medical advice/attention.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Warning

H- and P-phrases : P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.

Additional labelling (for all packaging sizes)  
 : Calcium chloride, dihydrate  
 : CAS nr.: 10035-04-8

**2.3. Other hazards**

Other information : Not classified as PBT or vPvB.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS** \*

**3.1. Substances**

Product description : Substance. Not classified as PBT or vPvB. Not included in the EU list with SVHC substances.

Information on substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Calcium chloride, dihydrate	> 95	10035-04-8	600-075-5		01-2119494219-28
Sodium chloride	1 - < 5	7647-14-5	231-598-3	MAC	

Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	Hazard Class	H-phrases	Pictograms
Calcium chloride, dihydrate	Eye Irrit. 2	H319	GHS07
Sodium chloride	----	----	----

Reference is made to chapter 16 for full text of each relevant H phrase.

**SECTION 4 FIRST-AID MEASURES** \*

**4.1. Description of first aid measures**

First aid measures

- Inhalation : Not applicable.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : No specific effects and/or symptoms are known.



Skin contact : No specific effects and/or symptoms are known.  
Eye contact : Irritant. May cause redness and pain.  
Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians :  
General : Call a poison control centre for guidance.

**SECTION 5 FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Extinguishing media  
Suitable : Carbondioxide (CO<sub>2</sub>). Foam. Dry chemical. Water fog.  
Not suitable : None known.

**5.2. Special hazards arising from the substance or mixture**

Special exposure hazards : None known. Non flammable product.  
Hazardous thermal decomposition products : None known.

**5.3. Advice for firefighters**

Special protective equipment for fire-fighters : Not applicable.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

**6.2. Environmental precautions**

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.  
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

**6.4. Reference to other sections**

Reference to other sections : See also section 8.

**SECTION 7 HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities**



Storage : Keep in a cool, dry and well-ventilated place (< 35 °C).  
Recommended packaging : Keep only in the original container.  
Non recommended packaging : Steel (except stainless steel).

### 7.3. Specific end use(s)

Use : Use only as directed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION \*

### 8.1. Control parameters

Workplace exposure limits (mg/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
Calcium chloride, dihydrate		10	-	Sasol	SDS CASO FCC Flakes, Solvay
Sodium chloride		10	-	-	Dow chemical, Industrial Hygiene Guidelines
calcium chloride		5	10		MAC: CS

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Calcium chloride, dihydrate	Inhalation	10 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	
Sodium chloride	Dermal		295,52 mg/kg bw		295,52 mg/kg bw/day
	Inhalation		2068,62 mg/m <sup>3</sup>		2068,62 mg/m <sup>3</sup>

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Calcium chloride, dihydrate	Inhalation	5 mg/m <sup>3</sup>		2,5 mg/m <sup>3</sup>	
Sodium chloride	Dermal		126,65 mg/kg bw		126,65 mg/kg bw/day
	Inhalation		443,28 mg/m <sup>3</sup>		443,28 mg/m <sup>3</sup>
	Oral		126,65 mg/kg bw		126,65 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Sodium chloride	Water	5 mg/l		
	Intermittent water			19 mg/l
	STP			500 mg/l
	Soil			4,86 mg/kg

### 8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.  
Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.



Respiratory protection : Take care of sufficient ventilation.  
Hand protection : Under normal conditions of use specific gloves are not required.  
Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance	: Solid.	
Colour	: White.	
Odour	: Odourless.	
Odour threshold	: Not applicable.	Odourless.
pH	: 8,5	10% solution.
Solubility in water	: Soluble.	
Partition coefficient (n-octanol/water)	: Not known.	
Flash point	: Not relevant.	Solid.
Flammability (solid, gas)	: Not flammable.	Not easily ignitable.
Auto ignition temperature	: Not applicable.	Not combustible.
Boiling point/boiling range	: 1670 °C	
Melting point/melting range	: 176 °C	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not applicable.	
Oxidising properties	: Not oxidizing.	
Decomposition temperature	: 176 °C	
Viscosity (20°C)	: Not applicable.	Solid.
Vapour pressure (20°C)	: Very low.	Solid.
Vapour density (20°C)	: Not applicable.	The solvent content of this product is less than 1%.
Relative density (20°C)	: 1,85 g/ml	
Evaporation rate	: Very low.	Solid.

**9.2. Other information**

Other information : Not relevant.

**SECTION 10 STABILITY AND REACTIVITY**

**10.1. Reactivity**

Reactivity : See sub-sections below.

**10.2. Chemical stability**

Stability : Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactivity : Hygroscopic. Reacts with water. No other hazardous reactions known.

**10.4. Conditions to avoid**

Conditions to avoid : See section 7.

**10.5. Incompatible materials**

Materials to avoid : No specific recommendations.



**10.6. Hazardous decomposition products**

Hazardous decomposition : Not known.  
products

**SECTION 11 TOXICOLOGICAL INFORMATION \***

**11.1. Information on toxicological effects**

**Inhalation**

- Acute toxicity : ATE: > 5 mg/l. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Not classified due to lack of data.
- Sensitisation : Not classified due to lack of data.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not classified due to lack of data. Fertility: Not classified due to lack of data.

**Skin contact**

- Acute toxicity : ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : No specific effects and/or symptoms are known. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Not classified due to lack of data.

**Eye contact**

- Corrosion/irritation : Irritant.

**Ingestion**

- Acute toxicity : ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not expected to be an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not classified - Based on available data, the classification criteria are not met. Fertility: Not classified due to lack of data.

**Toxicological information:**

Chemical name	Property		Method	Test animal
Calcium chloride, dihydrate	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Irritant		
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	Rabbit
	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	
	Skin irritation - estimate	Non-irritant	Read across	Rabbit
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	



# SAFETY DATA SHEET

According to Regulation (EU) No 2015/830

	Skin sensitisation - estimate NOAEL (development) - estimate LC50 (inhalation) - estimate	Not sensitizing 169 mg/kg.d > 5000 mg/m <sup>3</sup>	Read across ----- Read across	Rabbit
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## SECTION 12 ECOLOGICAL INFORMATION \*

### 12.1. Toxicity

Ecotoxicity : Calculated LC50 (fish): 2502 mg/l. Calculated EC50 (waterflea): 1320 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

Persistence – degradability : No specific information known. Inorganic salt.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : No BCF available. No specific information known.

### 12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

### 12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Not classified as PBT or vPvB.

### 12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Calcium chloride, dihydrate	IC50 (algae) - estimate	> 27000 mg/l		Pseudokirchnerella subcapitata
	LC50 (fish) - estimate	> 4630 mg/l		Pimephales promelas
	EC50 (waterflea) - estimate	> 2400 mg/l		Daphnia magna

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14 TRANSPORT INFORMATION



**14.1. UN number**

UN nr. : None.

**14.2. UN proper shipping name**

Transport name : Not regulated.

**14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards**

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

**14.6. Special precautions for user**

Other information : Country specific variations may apply.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

**SECTION 15 REGULATORY INFORMATION**

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

**15.2. Chemical safety assessment**

Chemical safety assessment : A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16 OTHER INFORMATION**

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**16.1. Other information**

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE : Acute Toxicity Estimate  
CLP : Classification, Labeling & Packaging  
CMR : Carcinogenic, Mutagenic or toxic for Reproduction





# SAFETY DATA SHEET

According to Regulation (EU) No 2015/830

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EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Eye Irrit. 2 : Expert judgement.

Full text of hazard classes mentioned in section 3:

Eye Irrit. 2 : Eye irritation, category 2.

Full text of H-phrases mentioned in section 3:

H319 Causes serious eye irritation.

Number format : "," used as decimal separator.

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End of safety data sheet.

## Section 1 Title of Exposure scenario

Title	: Consumer use of Calcium Chloride and Calcium Chloride containing products
Main user group	: Consumer uses
Sectors of end-use	: SU21
Process categories	: ----
Chemical product category	: PC2
Environmental release categories	: ERC8a, ERC8d
Specific Environmental Release: Category	: ----
Processes, tasks, activities covered	: Consumer use of Calcium Chloride and Calcium Chloride containing products

## Section 2 Operational conditions and risk management measures

### 2.0 Operational conditions

Concentration of substance in product : Covers concentrations up to 100%.

### 2.1 Control of consumer exposure

Amounts used	: For each use event, covers use amounts up to 50 kg unless stated differently.
Frequency and duration of use	: Covers use up to 365 days/year, unless stated differently. Covers exposure up to 24 hours/event, unless stated differently.
Human factors not influenced by risk management	: Inhalation rate up to 32,9 m <sup>3</sup> /day (Justification; Default ConsExpo light exercise- 60 kg. Average bw women, is reasonable worst case).
Other operational conditions affecting worker exposure	: Covers use at ambient temperatures. Room volume of 1 m <sup>3</sup> 'Room volume' is interpreted here as personal space: a small area of 1 m <sup>3</sup> around the use. Minimum 0,6 Air Exchange Rate (1/hr) Justification; equals to indoor typical (ConsExpo General Factsheet (RIVM report 320104002/2006)-unspecified room). Covers use with a release area up to 125 m <sup>2</sup> , unless stated differently. "Do not touch eyes when using this product".

### Chemical Product Categories

# Exposure scenario



PC2 (adsorbents) CaCl<sub>2</sub> used as domestic dehumidifier. : Operational conditions: No specific operation conditions identified.  
Risk management measures: No specific measures identified.  
Justification: Reasonable worst-case estimate non-spraying activities.