

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name : LIMPRO MOISTURE ABSORBER

Product code : LP4V007 Chemical name : Calcium chloride Registration nr. : 01-2119494219-28 Annex VI no : 017-013-00-2

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

: Dovox B.V. Supplier

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)

HAZARDS IDENTIFICATION **SECTION 2**

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.

: Not classified as dangerous according to statutory EC-Directives. Environmental hazards

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms



Signal word : Warning

H- and P-phrases : H319 Causes serious eye irritation.

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

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P280 eyes

Wear eye protection.

only

P337+P313 If eye irritation persists: Get medical advice/attention.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

+ P338 lenses, if present and easy to do. Continue rinsing.

Labelling of packagings where the contents do not exceed 125 ml:

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 : EC number: 233-140-8

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	96	10043-52-4	233-140-8		01-2119494219-28
Potassium chloride	1 - < 5	7447-40-7	231-211-8	MAC	
Calcium bromide	1 - < 3	7789-41-5	232-164-6		
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	Eye Irrit. 2	H319	GHS07	
Potassium chloride				
Calcium bromide	Eye Dam. 1	H318	GHS05	
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 for at least 15 minutes. Remove contact lenses. Consult a doctor.

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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 (CO2). 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 : None known.

decomposition products

5.3. Advice for firefighters

Special protective : Not applicable.

equipment for fire-fighters

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

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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

: None known.

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/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Calcium chloride		5	10	MAC: CS
Potassium chloride		5	-	
Sodium chloride		10	-	Dow chemical, Industrial Hygiene
				Guidelines

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-t	DNEL, short-term		DNEL, long-term	
	exposure		-			
	,,	Local effect	Systemic effect	Local effect	Systemic effect	
Calcium chloride	Dermal			5 mg/kg bw/day		
	Inhalation	10 mg/m3				
Potassium chloride	Dermal		910 mg/kg bw		303 mg/kg bw/day	
	Inhalation		5320 mg/m3		1064 mg/m3	
Calcium bromide	Dermal		0,2 mg/kg bw			
	Inhalation	500 mg/m3			1,4 mg/m3	
Sodium chloride	Dermal		295,52 mg/kg		295,52 mg/kg bw/day	
			bw			
	Inhalation		2068,62 mg/m3		2068,62 mg/m3	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-t	DNEL, short-term		DNEL, long-term	
	exposure					
	,	Local effect	Systemic effect	Local effect	Systemic effect	
Calcium chloride	Inhalation	5 mg/m3		2,5 mg/m3		
Potassium chloride	Dermal		910 mg/kg bw		182 mg/kg bw/day	
	Inhalation		1365 mg/m3		273 mg/m3	
	Oral		455 mg/kg bw		91 mg/kg bw/day	
Calcium bromide	Dermal				0,073 mg/kg bw/day	
	Inhalation				0,25 mg/m3	
	Oral				0,073 mg/kg bw/day	
Sodium chloride	Dermal		126,65 mg/kg		126,65 mg/kg bw/day	
			bw			
	Inhalation		443,28 mg/m3		443,28 mg/m3	

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500 mg/l 4,86 mg/kg

	Oral	126,65 mg/k bw	kg	126,65 mg/kg bw/day
Predicted no-effect concentra	tion (PNEC):	•	<u>.</u>	
Chemical name	Route of exposure	Fresh water	Marine water	
Potassium chloride	Water Intermittent water STP	0,1 mg/l	0,1 mg/l	1 mg/l 10 mg/l
Calcium bromide	Water Sediment Intermittent water STP Soil	0,117 mg/l 0,433 mg/kg	0,058 mg/l 0,215 mg/kg	0,208 mg/l 77,7 mg/l 0,2 mg/kg
Sodium chloride	Water Intermittent water	5 mg/l		19 mg/l

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.

STP

Soil

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. Wear appropriate gloves in case of

frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. \pm 0,5 mm.

Indication of permeation breakthrough time: 6 hours.

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 : 7 - 11 10% solution.

Solubility in water : Soluble.
Partition coefficient : Not applicable.

(n-octanol/water)

Flash point : Not relevant. Solid.

Flammability (solid, gas) : Not flammable.

Auto ignition temperature : Not applicable. Not combustible.

Boiling point/boiling range : 1935 °C Melting point/melting range : 782 °C

Explosive properties : Not an explosive. Explosion limits (% in air) : Not applicable. Oxidising properties : Not oxidizing. Decomposition temperature : Not known.

Viscosity (20°C) : Not applicable. Solid. Vapour pressure (20°C) : Very low. Solid.

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Vapour density (20°C) : Not applicable. The solvent content of this product is less than 1%.

Relative density (20°C) : 2,15 g/ml

Evaporation rate : Very low. Solid.

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 : Not applicable.

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.

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 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.

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.

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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	NOAEL (development,	> 176 mg/kg bw/d	OECD 414	Rat
	oral)			
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Eye irritation	Highly irritant	OECD 405	Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOEL (carcinogenicity)	Not carcinogenic		
	- estimate			
	LD50 (oral)	2120 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
Calcium bromide	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development)	250 mg/kg.d	Read across	
	- estimate			
	Eye irritation	Irritant	OECD 405	Rabbit
	Skin irritation	Non-irritant		Rabbit
	Genotoxicity - estimate	Not genotoxic	Read across	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (oral) -	16,5 mg/kg bw/d	Read across	
	estimate			
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	> 2000 mg/kg bw		Rat

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity : Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability: No specific information known.

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.

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Ecological information:

Chemical name	Property		Method	Test animal
Calcium chloride	IC50 (algea)	27000 mg/l	OECD 201	Pseudokirchnerella
				subcapitata
	EC50 (waterflea)	2400 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	4630 mg/l		Pimephales promelas
	Log P(ow)	NA		

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

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

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

regulations

15.2. Chemical safety assessment

Chemical safety : Not available.

assessment

SECTION 16 OTHER INFORMATION

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

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 : On basis of test data.

Full text of hazard classes mentioned in section 3:

Eye Dam. 1 : Serious eye damage, category 1.

Eye Irrit. 2 : Eye irritation, category 2.

Full text of H-phrases mentioned in section 3:

H318 Causes serious eye damage. H319 Causes serious eye irritation.

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Number format : "," used as decimal separator.

End of safety data sheet.

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