

# Kit SDS Cover Sheet

## Pyrospense Kit Dispersing Reagent

Version 3.0

Revision Date 16.12.2021

Print Date 14.12.2024

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### Product Information

Product name : Pyrospense Kit Dispersing Reagent

Material number : N188

### Components

Pyrospense

SDS attached

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name : Pyrosperse

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

Use of the Substance/Mixture : For Endotoxin Detection Use

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

Company : **Lonza Ltd**  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland  
Business Telephone: +41 61 316 81 11

**Lonza Verviers Sprl**  
Parc Industriel de Petit-Rechain  
BE-4800 Verviers, Belgium  
Business Telephone: +32 8732 1611

**Lonza Cologne GmbH**  
Nattermannallee 1  
DE-50829 Köln, Germany  
Business Telephone: + 49 221 99 1990

**Lonza Copenhagen ApS**  
Strandhaven 12  
DK-2665 Vallensbaek Strand, Denmark  
Business Telephone: + 45 4356 7400

E-mail address : sds@lonza.com

Responsible/issuing person

**1.4 Emergency telephone number**Emergency telephone number : Lonza Ltd, CH-4002 Basel, Switzerland  
Telephone: +41 61 313 94 94 (24h)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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#### Additional Labelling

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. REACH Registration Number	Classification	Concentration (% w/w)
Calcium chloride dihydrate	10035-04-8 233-140-8 017-013-00-2 01-2119494219-28-XX XX	Eye Irrit. 2; H319	>= 3 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : No special precautions required.
- In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.
- If swallowed : Immediately give large quantities of water to drink.  
Do not induce vomiting without medical advice.

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Never give anything by mouth to an unconscious person.

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

Symptoms : No information available.

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

Treatment : No information available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**Suitable extinguishing media : Water spray  
Dry powder  
Foam**5.2 Special hazards arising from the substance or mixture**Hazardous combustion products : Calcium Oxide  
Nitrogen oxides (NOx)  
Sodium oxides  
Carbon oxides (Cox)  
Hydrogen chloride (HCl)**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**Methods for cleaning up : Soak up with inert absorbent material.  
Do not flush into surface water or sanitary sewer system.

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#### 6.4 Reference to other sections

For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

Advice on protection against fire and explosion : Stable under normal conditions.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed in a dry and cool place. Do not freeze.

#### 7.3 Specific end use(s)

Specific use(s) : No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Countries not listed may have their own country specific values.

##### Occupational Exposure Limits

##### European Union

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TWA (Respirable fraction.)	1 mg/m <sup>3</sup>	ECTLV
		STEL (Respirable fraction.)	4 mg/m <sup>3</sup>	ECTLV

##### Switzerland

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TWA (Respirable fraction.)	1 mg/m <sup>3</sup>	ECTLV
		STEL (Respirable fraction.)	4 mg/m <sup>3</sup>	ECTLV
		TWA (Inhalable fraction.)	1 mg/m <sup>3</sup>	SMAK

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		STEL (Inhalable fraction.)	4 mg/m <sup>3</sup>	SMAK
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#### Germany

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	MAK (Inhalable fraction.)	1 mg/m <sup>3</sup>	DFG MAK
Peak-limit: excursion factor (category)		Peak-limit: excursion factor (category) 2		
		(Inhalable fraction.)	1 mg/m <sup>3</sup>	TRGS 900
Peak-limit: excursion factor (category)		Peak-limit: excursion factor (category) 2		

#### Belgium

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	STEL (Respirable fraction.)	4 mg/m <sup>3</sup>	BE/OEL
		TWA (Respirable fraction.)	1 mg/m <sup>3</sup>	BE/OEL

#### Denmark

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	GV (Respirable fraction.)	1 mg/m <sup>3</sup>	GV (DK)
		GV	5 mg/m <sup>3</sup>	GV (DK)

#### France

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	VME	1 mg/m <sup>3</sup>	FVL
		VLE	4 mg/m <sup>3</sup>	FVL

#### Italy

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TWA (Respirable fraction.)	1 mg/m <sup>3</sup>	OEL (IT)
		STEL (Respirable fraction.)	4 mg/m <sup>3</sup>	OEL (IT)

#### Netherlands

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis

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Calcium dihydroxide	1305-62-0	TGG (Respirable fraction.)	1 mg/m3	NL OEL
Further information		Effective date: 21 Aug 2018		
		TGG 15 (Respirable fraction.)	4 mg/m3	NL OEL
Further information		Effective date: 21 Aug 2018		

#### Spain

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	STEL (Respirable fraction.)	4 mg/m3	VLA
		TWA (Respirable fraction.)	1 mg/m3	VLA

#### Sweden

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TGV (Respirable dust.)	4 mg/m3	SWO
		TWA (Respirable dust.)	1 mg/m3	SWO

#### United Kingdom

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TWA (Respirable fraction.)	1 mg/m3	EH40 WEL
		STEL (Respirable fraction.)	4 mg/m3	EH40 WEL
		TWA	5 mg/m3	EH40 WEL

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Calcium chloride dihydrate	Workers	Inhalation	Long-term local effects	5 mg/m3
	Consumers	Inhalation	Acute local effects	5 mg/m3
	Consumers	Inhalation	Long-term local effects	2,5 mg/m3
	Workers	Inhalation	Acute local effects	10 mg/m3

## 8.2 Exposure controls

### Engineering measures

Use only in area provided with appropriate exhaust ventilation.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

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Material	:	Nitrile rubber
Rate of permeability	:	> 480 min
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required.
Respiratory protection	:	No personal respiratory protective equipment normally required.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Appearance	:	Aqueous solution
Colour	:	transparent, light yellow
Odour	:	odourless
Melting point/freezing point	:	ca. 0 °C
Initial boiling point and boiling range	:	no data available
Flammability	:	no data available
Upper explosion limit / upper flammability limit	:	no data available
Lower explosion limit / Lower flammability limit	:	no data available
Flash point	:	Not applicable, Water
Auto-ignition temperature	:	no data available
Decomposition temperature Decomposition temperature	:	no data available
pH	:	no data available
Viscosity Viscosity, kinematic	:	no data available
Solubility(ies) Water solubility	:	soluble



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Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	no data available
Relative density	:	no data available
Density	:	no data available
Relative vapour density	:	no data available
Particle characteristics	:	no data available

**9.2 Other information**no data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

Stable under recommended storage conditions.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Stable under normal conditions.

**10.4 Conditions to avoid**

Conditions to avoid : no data available

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**No decomposition if stored normally.

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Information on likely routes of exposure : Eyes  
Skin**Acute toxicity**Acute inhalation toxicity : Remarks: no data available

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Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation**

Remarks: no data available

**Serious eye damage/eye irritation**

Remarks: no data available

**Respiratory or skin sensitisation**

Remarks: no data available

**Germ cell mutagenicity**

Genotoxicity in vitro : Remarks: no data available

**Carcinogenicity**

Remarks: no data available

**Reproductive toxicity**

Effects on fertility : Remarks: no data available

**STOT - single exposure**

Remarks: no data available

**STOT - repeated exposure**

Remarks: no data available

**11.2 Information on other hazards****Endocrine disrupting properties**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information**

Remarks: No data is available on the product itself.

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish : Remarks: no data available

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**12.2 Persistence and degradability**

Biodegradability : Result: no data available

**12.3 Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

**12.4 Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**12.5 Results of PBT and vPvB assessment**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : no data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Product : Contact waste disposal services.  
Dispose of in accordance with local regulations.

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**SECTION 14: Transport information****IATA** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**IMDG-CODE** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : Marine pollutant: no

**ADR** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**RID** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

**DOT** Not dangerous goods

14.1 UN number : Not applicable  
14.2 Proper shipping name : Not applicable  
14.3 Transport hazard class : Not applicable  
14.4 Packing group : Not applicable  
14.5 Environmental hazards : no

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<b>TDG</b>	:	Not dangerous goods
<b>14.1 UN number</b>	:	Not applicable
<b>14.2 Proper shipping name</b>	:	Not applicable
<b>14.3 Transport hazard class</b>	:	Not applicable
<b>14.4 Packing group</b>	:	Not applicable
<b>14.5 Environmental hazards</b>	:	no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### National regulatory information

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Remarks: Classification according to AwSV, Annex 1 (5.2)

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**15.2 Chemical safety assessment**

not required

**SECTION 16: Other information****Full text of H-Statements**

H319 : Causes serious eye irritation.

**Full text of other abbreviations**

Eye Irrit. : Eye irritation  
BE/OEL : Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended

DFG MAK : Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended

ECTLV : EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended

EH40 WEL : UK. EH40 Workplace Exposure Limits (WELs), as amended  
FVL : France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984, as amended

GV (DK) : Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended

NL OEL : Netherlands. OELs (binding), as amended  
OEL (IT) : Italy. Occupational Exposure Limits, as amended  
SMAK : Switzerland. SUVA Grenzwerte am Arbeitsplatz, as amended

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE - Acute Toxicity Estimate; AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water; BPR – Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC – European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN – European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV – Danish Exposure Limits for Substances and Materials; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide – National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP -

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National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL - Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG – Dutch Threshold Limit Value; TGV – Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

**Further information**

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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