

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : CORDON
Product code : 7259
Type of product : Fertilisers and fertilising products

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

Relevant identified uses

Use of the substance/mixture : Fertilisers

1.3. Details of the supplier of the safety data sheet

LAINCO, S.A.
Avinguda Bizet 8-12
08191 Rubí, Barcelona
España
T +34 93 586 20 15, F +34 93 586 20 16
lainco@lainco.com, <http://www.lainco.com>

1.4. Emergency telephone number

Emergency number : 112
Single Emergency Telephone Number (Schedule: 24h) (European Union)

Country/Area	Organisation/Company	Address	Emergency number	Comment
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Barcelona	C/Merced 1 08002	+34 91 562 04 20	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P270 - Do not eat, drink or smoke when using this product.
EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards which do not result in classification : May cause slight irritation to eyes. May cause slight irritation to the skin.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium Phosphonate	CAS-No.: 13492-26-7 EC-No.: 236-809-2	< 65	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. First aider: Pay attention to self-protection!.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Move the affected person away from the contaminated area and into the fresh air. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: Do NOT induce vomiting. Do not give an unconscious person anything to drink. If unconscious place in recovery position and seek medical advice. If swallowed, seek medical advice immediately and show this container or label. Drain stomach by gastric lavage under qualified medical supervision.

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

Symptoms/effects after inhalation	: Slightly irritating to the respiratory system.
Symptoms/effects after skin contact	: Causes mild skin irritation.
Symptoms/effects after eye contact	: mild eye irritation.
Symptoms/effects after ingestion	: Nausea. Vomiting.

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

Never leave the intoxicated person alone. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream. Simultaneous use of foam and water on the same surface should be avoided, as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: In case of fire: May release harmful fumes: SO _x , CO _x , NO _x and other combustion products.

5.3. Advice for firefighters

Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Eliminate all ignition sources if safe to do so.
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Firefighting instructions	: Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire. Keep upwind.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Dispose of contaminated materials in accordance with current regulations. Do not allow run-off from fire-fighting to enter drains or water courses. Keep container closed when not in use.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Stop leak if safe to do so. Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Remove ignition sources. Avoid static electricity discharges. Do not spray ground with water. Do not breathe vapour/aerosol.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. Wear suitable respiratory equipment.
Emergency procedures	: Ventilate spillage area. Only qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters. Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Take up liquid spill into absorbent material. Sweep or shovel spills into appropriate container for disposal. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site. Keep away from sources of ignition - No smoking.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure good ventilation of the work station. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Wear protective clothing, eye protection, face protection. Take off immediately all contaminated clothing and wash it before reuse. Avoid contact with skin and eyes. Do not breathe vapours, spray. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Eliminate all ignition sources if safe to do so. Handle carefully. Opened containers must be carefully closed and kept upright to avoid leakage. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in tightly closed, leak-proof containers. Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feedingstuffs. Keep away from children.

Incompatible products : Copper compound. Dicofol. Dimethoate. Oil. Alkaline mixture. Oxidizing materials.

Incompatible materials : Only store product in original container.

Maximum storage period : 2 years

Storage temperature : Store at ambient temperature

heat and ignition sources : Protect from heat and direct sunlight. No naked flames, sparks, and do not smoke.

Storage area : Keep only in the original container in a cool, well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container.

Packaging materials : Keep only in original packaging.

7.3. Specific end use(s)

No special requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. The workplace should be equipped with an emergency shower and eye-rinsing facility. Always wash hands after handling the product. Keep upwind.

Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety goggles

Eye protection			
Type	Field of application	Characteristics	Standard
Safety goggles		With side shields	EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Polyvinylchloride (PVC)				EN ISO 374

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Discharge to atmosphere in large quantities should be avoided. Provide good ventilation in process area to prevent formation of vapour.

Consumer exposure controls:

Exercise customary precautions when handling chemicals.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Odour	: Characteristic. Strong.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive properties	: Does not present explosive properties. (Test method EU A.14).
Oxidising properties	: Does not present oxidising properties. (Test method EU A.21).
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C (Test method EU A.9)
Auto-ignition temperature	: 409 °C (Test method EU A.15)
Decomposition temperature	: Not available
pH	: 5.5 – 7.5 (Direct)
Viscosity, kinematic	: 5.33 mm ² /s (20°C) (OECD 114 method)
Solubility	: Water: Soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: < -4
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.45 – 1.52 g/ml (Test method EU A.3)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Viscosity, kinematic	: 3,19 mm ² /s (40°C) (OECD 114 method)
Surface tension	: 70,6 mN/m (20,2°C) (Test method EU A.5)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. On thermal decomposition (pyrolysis) : May release harmful fumes: SO_x, CO_x, NO_x and other combustion products.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Keep out of direct sunlight. Avoid excessive heat. Store away from oxidation agents.

10.5. Incompatible materials

Copper compound. Dicofof. Dimethoate. Oil. Alkaline mixture. Oxidizing materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat (Vapours)	> 2.01 mg/l/4h (OECD 403 method)

Potassium Phosphonate (13492-26-7)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified
pH: 5.5 – 7.5 (Direct)
Additional information : (OECD 404 method)
Serious eye damage/irritation : Not classified
pH: 5.5 – 7.5 (Direct)
Additional information : (OECD 405 method)
Respiratory or skin sensitisation : Not classified
Additional information : (OECD 406 method)
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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Viscosity, kinematic	5.33 mm ² /s (20°C) (OECD 114 method)
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11.2. Information on other hazards

Other information

Other information : ADD (acceptable daily dose) (Potassium Phosphonate): 3,9 mg/kg bodyweight/day

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

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LC50 - Fish [1]	> 100 mg/l (96 h, Oncorhynchus mykiss (Rainbow trout), OECD 203 method)
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna (Water flea), OECD 202 method)
EC50 72h - Algae [1]	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201 method)

Potassium Phosphonate (13492-26-7)

LC50 - Fish [1]	> 200 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	≈ 137.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	≈ 101.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability : Product is biodegradable.

Potassium Phosphonate (13492-26-7)

Persistence and degradability : Not rapidly degradable

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow) : < -4
Bioaccumulative potential : No bioaccumulation potential.

12.4. Mobility in soil

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Ecology - soil : Low mobility (soil).

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Avoid release to the environment. Do not dispose of the packaging without first carrying out the necessary cleaning. Completely empty the packaging prior to decontamination. Rinse empty containers with water three times.
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not contaminate water with the product or its container. Do not clean application equipment near surface water.
European List of Waste (LoW, EC 2000/532)	: 02 01 09 - agrochemical waste other than those mentioned in 02 01 08 15 01 00 - packaging (including separately collected municipal packaging waste)

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : The product is not included in any of the categories described in annex I.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Spain

Spanish National Regulations : Spanish Royal Decree 656/2017 and its modifications: Not included in the scope described in article 2 of the Royal Decree cited above.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value

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Abbreviations and acronyms:	
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources

: Registration Report: Potassium phosphonate (510 g/L, expr. as phosphorous acid) (February 2023). Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). Manual Toxicológico de Productos Fitosanitarios para Uso Sanitario del Instituto Nacional de Toxicología y AEPLA. The Pesticide Manual, Fourteenth Edition (2006). Editor: C D S Tomlin.

Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.

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Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.