

Safety Data Sheet

OSHA 29 CFR 1910.1200

Printing Date: March 18, 2023

Version No.: 1.0

Revision: March 18, 2023

1 Identification

• Product identifier**Trade name:**PCM-21**• Other means of identification:**

No available data.

• Recommended use of the chemical and restrictions on use**Application of the substance/ mixture:**

Professional uses, cold chain.

2 Hazard(s) identification

• Classification of the substance or mixture:

This product is not classified according to OSHA 2012 Hazard Communication Standard (29 CFR 1910.1200).

Hazard class	Hazard category
Not applicable	Not applicable

• Classification system:

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200) and extended by company and literature data.

• Label elements**• Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)****• Hazard pictograms:**

Not applicable

• Signal word:

Not applicable

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Trade Name: PCM-21**• Hazard-determining components of labelling:**

Not applicable

• Hazard statements:

Not applicable

• Precautionary statement:

Not applicable

• Hazards not otherwise classified (HNOC):

No known otherwise classified hazards.

3 Composition/information on ingredients

• Chemical characterization:

Mixture

• Description:

PCM-21.

• Components:		
CAS No.	Composition Name	w/w, %
7732-18-5	Water	-
7786-30-3	Magnesium chloride	-
7647-14-5	Sodium chloride	-
9005-38-3	Sodium alginate	-

4 First aid measures

• Description of first aid measures**After inhalation:**

Supply with fresh air.

Call for doctor/physician if you feel unwell.

After skin contact:

Wash with water.

If there are signs of irritation or other symptoms seek medical attention.

After eye contact:

Rinse cautiously with water.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

• Information for doctor**• Most important symptoms and effects, both acute and delayed:**

No known symptoms or effects, acute or delayed.

• Indication of any immediate medical attention and special treatment needed:

Treat according to symptom, there is not known specific medicine.

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5 Fire-fighting measures

• Suitable extinguishing agents:

Use CO₂, powder, water spray or alcohol resistant foam to extinguish.

• Special hazards arising from the substance or mixture:

No special hazard arising from the chemical.

• Special protective equipment and precaution for firefighters**Protective equipment:**

Wear self-contained breathing apparatus for firefighting.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures:

Collect the leakage timely.

Ensure adequate ventilation.

Prevent to contact with eyes.

• Environmental precautions:

Do not allow the product to enter sewers/surface or ground water.

Inform respective authorities in case of seepage into water course or sewages system.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure well ventilation.

Dispose contaminated material as waster according to item 13.

7 Handling and storage

• Handling**• Precautions for safe handling:**

Avoid contact with eyes.

• Information about fire and explosion protection:

Normal measures for preventive fire protection.

• Conditions for safe storage, including any incompatibilities**• Requirements to be met by storerooms and receptacles:**

Store in a cool and well-ventilated place.

• Information about storage in one common storage facility:

No further requirements.

• Further information about storage conditions:

No further requirements.

8 Exposure controls/personal protection

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• **Components with limit values that require monitoring at the workplace:**

CAS No.	Composition	OSHA PEL	NIOSH REL	ACGIH TLV	Cal/OSHA PEL
7732-18-5	Water	None	None	None	None
7786-30-3	Magnesium chloride	None	None	None	None
7647-14-5	Sodium chloride	None	None	None	None
9005-38-3	Sodium alginate	None	None	None	None

• **Additional information:**

The lists that were valid during the creation were used as basis.

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure:**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

See section 7 for information about design of technical facilities.

• **Personal protective equipment:**

• **Breathing equipment:**

Dust mask is recommended.

• **Protection of hands:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11 mm; breakthrough times up to 480 minutes).

• **Eye protection:**



Safety glasses

Protective goggles with side-shields.

• **Body Protection:**

Gauntlets, boots, bodysuit are recommended.

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **Appearance:**

Form	Liquid
Color	Not determined
Odor	Slight smell
Odor threshold	Not determined
• pH-value	6-8 (20°C)
• Change in condition	
Melting point/melting range	Not determined.
Boiling point and boiling range	Not determined.
• Freezing point	Not determined.
• Flash point	>93°C

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• Flammability	Not flammable liquid
• Decomposition temperature	Not applicable
• Self-ignition	Not determined.
• Danger of explosion	Product dose not present explosive hazard.
• Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
• Oxidizing properties	Not oxidizing agent
• Vapor pressure	Not determined.
• Density	Not determined.
• Relative density	Not determined.
• Vapor density	Not determined.
• Evaporation rate	Not determined.
• Solubility in/Miscibility with	
Water	Soluble in water
• Partition coefficient (n-octanol/water)	Not applicable
• Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
• Other information	Not determined.

10 Stability and reactivity

• **Reactivity:**

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

• **Chemical stability:**

Stable under recommended storage conditions.

• **Possibility of hazardous reactions:**

No known hazardous reaction.

• **Conditions to avoid:**

No known avoid condition.

• **Incompatible materials:**

Strong acids and strong oxidizing agents.

• **Hazardous decomposition products:**

No known hazardous decomposition products.

11 Toxicological information

• **Acute toxicity:**

Non-toxic chemical.

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Trade Name: PCM-21**LD50/LC50 values relevant for classification:**

7786-30-3 Magnesium chloride

Rat	LD50-oral	2800mg/kg
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Mouse	LD50-oral	4700mg/kg
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7647-14-5 Sodium chloride

Mouse	LD50-oral	4000mg/kg
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Rabbit	LD50-skin	>10000mg/kg
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Rat	LD50-oral	3000mg/kg
	LC50-inhalation	> 42000mg/m ³ /1H

9005-38-3 Sodium alginate

Rat	LD50-oral	>5000mg/kg
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Remark: All the above data are from literature.

• **Primary irritant effect**• **Skin corrosion/irritation:**

Not irritant to skin.

• **Serious eyes damage/ irritation:**

Not irritant to eyes.

• **Sensitization:**

Not sensitive to skin or respiratory.

• **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

• **Carcinogenic categories**• **IARC (International Agency for Research on Cancer):**

None of the ingredients is listed.

• **NTP (National Toxicology Program):**

None of the ingredients is listed.

12 Ecological information• **Toxicity:** No available data.• **Persistence and degradability:** No available data.• **Bio-accumulative potential:** No available data.• **Mobility in soil:** No available data.• **Additional ecological information**• **Other adverse effects:**

No known other adverse effects.

13 Disposal consideration• **Waste treatment methods**

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Trade Name: PCM-21**• Recommendation:**

Small quantities can be disposed together with household garbage.

Large quantities disposed must be in according to the local regulation.

• Un-cleaned packaging**• Recommendation:**

Dispose of contents/container in according to the local regulation.

14 Transport information**• DOT-DGR**

This product is not subject to DOT-DGR.

• IMO/IMDG (40-20)

This product is not subject to IMO/IMDG code.

• IATA-DGR (64th)

This product is not subject to IATA-DGR.

15 Regulatory information**• Safety, health and environmental regulations/legislation specific for the substance or mixture****• Sara****• Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

7732-18-5	Water	Listed
7786-30-3	Magnesium chloride	Listed
7647-14-5	Sodium chloride	Listed
9005-38-3	Sodium alginate	Listed

• Proposition 65**• Chemicals known to cause cancer:**

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• Washington, WAC 173-334-130 (CHCC):

None of the ingredients is listed.

• Chemicals of Concern, published by Maine DEP on July, 2015:

None of the ingredients is listed.

• Chemicals of High Concern to Children, published by Department of Health, Vermont, Rev Date Nov 24, 2014:

None of the ingredients is listed.

• High Priority Chemicals of Concern for children's Health, Oregon, update on May 18, 2016:

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None of the ingredients is listed.

• Carcinogenicity categories**• EPA (Environmental Protection Agency):**

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

16 Other information

The contents and format of this SDS are in accordance with 29 CFR 1910.1200(g).

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

• Abbreviations and acronyms:

DOT: Department of Transportation

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

PEL: Permissible Exposure Limit

TLV: Threshold limit value

REL: Recommended Exposure Limit

End of safety data sheet