

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

1. IDENTIFICATION OF SUBSTANCE/MIX AND ENTREPRENEURSHIP/COMPANY

- 1.1. Product identifier:** **ICE BREAKER**
UFI: J97G-M07F-600D-HP4Y
- 1.2. Identified usage purpose of substance or mixture, and non-recommended usage:** Mixture of calcium chloride and quartz sand for slippery and icy surfaces
- 1.3. Information of safety data sheet provider**
- 1.3.1. Manufacturer/importer: Ltd Vincents Polyline
- 1.1.1. Company registry number: 40003358071
- 1.3.2. Full address: 29 Cīruļu Street, Kalngale,
Carnikavas parish, Adazu county, LV-2163, Latvia
- Phone: +371-67903272
- E-mail: polyline@polyline.vincents.lv
- 1.4. Emergency phone numbers:** Ambulance: 113
State Fire and Rescue Service: 112
Toxicology and sepsis clinics Poisoning and Drug Information
Centre: +371-67042473 (works 24 hours a day)

2. HAZARD IDENTIFICATION

2.1. Classification of substance or mixture

According to (EC) Regulation
No 1272/2008: Eye Irrit. 2; H319

2.2. Label element

GHS pictograms:



Signal word:

Warning

Hazard statement:

H319 – Causes serious eye irritation

Precautionary statement:

Prevention:

P102 – Keep out of reach of children

P280 – Wear protective gloves/eye protection/face protection

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

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

2.3. Other hazards:

The product does not contain PBT or vPvB substances.
Endocrine-disrupting properties: None known.

3. COMPOSITION/COMPONENT PART INFORMATION

3.2. Mixtures

Chemical characteristics: The mixture contains calcium chloride, its hydrates, and quartz sand
Hazardous components of the mixture:

Chemical name	CAS No. / EC No. / REACH Registration No.	Classification (REGULATION (EC) No. 1272/2008)	Concentration, %
Calcium chloride	10043-52-4/ 233-140-8/	Warning  Eye Irrit. 2; H319	15
Calcium hydroxide	1305-62-0/ 215-137-3/	Dangerous  Eye Dam. 1; H318 Skin Irrit. 2; H315	<0,2%

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air. If irritation, coughing, or other symptoms occur, seek medical advice

Skin contact: If the mixture comes into contact with skin, rinse the skin thoroughly with plenty of water. Remove contaminated clothing and wash it before reuse. If signs of irritation appear, seek medical attention

Eye contact: Do not rub the eyes to avoid mechanical damage. Remove contact lenses if worn. Rinse with plenty of water for 15 minutes; if necessary, consult a doctor

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

Ingestion:	Drink plenty of water. Do not induce vomiting. Seek medical attention immediately
------------	---

4.2. The most important symptoms and effects – acute and delayed

Symptoms:

-

4.3. Indication of needed immediate medical attention and special treatment

Treatment:	Administer symptomatic treatment (decontamination, support of vital functions)
------------	--

5. FIRE-FIGHTING MEASURES

5.1. Fire-fighting equipment

Suitable extinguishing media:	The product is not classified as explosive or flammable. In case of fire, use foam, water jet, CO ₂ , or fire extinguishers
-------------------------------	--

5.2. Special hazards arising from the substance or mixture

Special hazards during fire:	None
------------------------------	------

5.3. Suggestions to fire-fighters

Special protective equipment:	Wear a respirator independent of ambient air composition
-------------------------------	--

Additional information:

6. IN CASE OF ACCIDENTAL SPILLAGE

6.1. Personal precautions, protective equipment and procedures in emergency situations:	Wear appropriate personal protective equipment as outlined in section 8. Ensure proper ventilation
---	--

For people that haven't received training in emergency situations:	Do not take any actions without any appropriate training that may cause any personal injury
--	---

Emergency aid personnel:	Wear protective equipment
--------------------------	---------------------------

6.2. Environmental safety measures:	Prevent uncontrolled releases into the environment (rivers, waterways, sewers, etc.)
-------------------------------------	--

6.3. Methods for containment and cleaning up:	In case of a large spill in a sensitive environmental area: create a bund around the spill using sand or other inert materials and
---	--

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

collect the material. Collect as much as possible in an appropriate clean container, preferably for reuse; if reuse is not possible, dispose of it

6.4. Reference to other sections:

Personal protection in section 8. Elimination of substance or packaging in section 13

7. USE AND STORAGE

7.1. Precautions for safe handling:

Information for personnel about hygiene measures of personal protection in section 8

Advice for safe handling:

Use in well-ventilated areas. Wash hands before breaks and at the end of the workday. Avoid inhaling dust. Avoid contact with skin and eyes

7.2. Safe environment for storage, as well as incompatible type:

Storage temperature: +5 to +30°C. Protect from moisture. Expiry date: indefinite

7.3. Specifically intended use for:

No separate instructions provided

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters:

Applied occupational exposure limit values:

WEL = Workplace Exposure Limit, National Exposure Indicators for working conditions, EH 40, 2005.g

CAS. No.	Substance name	WEL (8h)
	Dust (inhalable amount of any dust)	10 mg/m ³
	Inhalable dust	4 mg/m ³
1305-62-0	Calcium hydroxide	5 mg/m ³

8.2. Exposure control

Appropriate technical control:

Ensure good ventilation and use personal protective equipment. Also, refer to section 7. When working with dry mixtures, take measures to reduce dust formation and its spread in the surrounding environment

Personal protection equipment

Breathing protection:

Wear a respirator with the appropriate filter

Skin protection:

Arm protection:

Wear gloves. Suitable glove materials include neoprene (chloroprene) and nitrile rubber

Body protection:

Work protective clothing and footwear

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

Eye/face protection:	Use appropriate eye protection if there is a risk of eye contact
Hygiene measures:	Follow good industrial hygiene and safety practices. Avoid contact of the product with skin and eyes. Do not eat, drink, or smoke during work. Wash contaminated clothing before reuse
Environmental risk assessment:	Do not introduce the product into groundwater or surface waters, as it may cause changes in water and soil pH. Also refer to sections 6 and 12

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

9.1. Information of basic physical and chemical characteristics

Appearance:	
State:	Powder/Solid substance
Color:	Brown
Odor:	None
Odor threshold:	Not applicable
pH:	Not applicable
Melting/freezing point:	Not applicable
Range of boiling point and boiling temperature:	Not applicable
Flash temperature:	Not applicable
Evaporation rate:	Not applicable
Flammability (other substances, gases)	Not classified. The substance does not support combustion according to transport regulations
Highest/lowest flammability and explosion point:	Not applicable
Vapor pressure:	Not determined
Vapor density:	Not specified
Bulk density:	1,5 g/cm ³
Solubility:	Not applicable

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

Partition coefficient (n-octanol/water):	Not applicable
Self-ignition temperature:	No information available
Kinematic viscosity:	Not applicable to solid substances
Viscosity:	Not dangerous
Oxidation characteristics:	Not oxidizing

9.2. Cita informācija

Maximum explosion upper pressure:	No information available
Minimum ignition energy:	No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity	Under normal conditions, it does not react. Some of it binds with water/moisture
10.2. Chemical stability	Under normal conditions, it does not decompose and is stable
10.3. Possibility of dangerous reaction:	Calcium chloride can react strongly with certain strong reducing and oxidizing agents
10.4. Circumstances, which should be avoided:	Presence of moisture, acids, ammonium compounds
10.5. Incompatible material:	Calcium chloride can cause pitting damage and corrosion on certain grades of stainless steel. Under high temperature and stress conditions, it can promote cracking due to stress corrosion
10.6. Dangerous products of degradation:	It does not decompose under normal conditions

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:	Ingestion: Calcium chloride may irritate the esophagus and stomach. LD50: 2301 mg/kg by body weight (male/female rats). OECD 401 method Inhalation: It may cause irritation of the mucous membranes of the larynx and throat, and an unpleasant sensation in the mouth
-----------------	---

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

	after the first inhalation, especially if dust concentration is high. According to REACH Annex VIII, column 2, acute inhalation testing is not required because reliable information on acute toxicity is available for two other exposure routes – oral and dermal. For human experience, see the "Other Information" section below Eye contact: Calcium chloride is classified as irritating to the eyes, Category 2. However, this is a local effect, and accumulation or other systemic toxic effects from eye contact are not expected Skin contact: LD50 (dermal) > 5000 mg/kg by body weight (male/female)
Corrosive/Irritant to skin:	Prolonged skin contact may cause irritation, skin sensitivity, and dermatitis
Causes eye damage/irritation:	Anhydrous calcium chloride (rabbits): High irritation level, OECD 405 Calcium chloride di- and tetrahydrates (rabbits): Irritant, OECD 405 Calcium chloride hexahydrate (rabbits): Moderately irritating, OECD 405
Respiratory or skin sensitization:	Calcium chloride is not a respiratory system or skin sensitizer. According to REACH Annex XI, Chapter 1, testing does not appear necessary from a scientific perspective; it is acknowledged that calcium chloride does not have sensitizing properties, based on the physiological roles of its constituent ions
Stem cell mutation:	Bacterial reverse mutation test: Negative for <i>Salmonella Typhimurium</i> , others: TA92, TA1535, TA100, TA1537, TA94, TA98 (all strains/cell types tested); activation method: with; cytotoxicity: none, but tested with limited concentration. Calcium and chloride are normal components of the body. It is not expected that the substance is genotoxic
Carcinogenicity:	Calcium chloride is not genotoxic in vivo. Both calcium and chloride are essential nutrients for humans, and it is recommended to consume each of these ions in daily doses exceeding 1000 mg. Based on this information, it is concluded that the substance is not carcinogenic
Toxic impact on specific organ, single exposure:	Respiratory system: Not irritating
Toxic impact on specific organ, repeated exposure:	Respiratory system: Not irritating
Risk of inhalation:	Not relevant for solid substance

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

11.2. Information on other hazards

The product does not contain PBT or vPvB substances.
Endocrine-disrupting properties: Not known

12. ENVIRONMENTAL INFORMATION

12.1. Toxicity

Calcium chloride is not classified as hazardous to the environment

Acute toxicity:

Fish (*Pimephales promelas*)

LC50 (96 hours): 4630 mg/l

LC50 (48 hours): > 6560 mg/l

LC50 (24 hours): > 6560 mg/l

Method: Other: EPA/600/4-90/027, EPA/600/6-91/003

Crustaceans (*Daphnia magna*)

LC50 (48 hours): 2400 mg/l based on mobility (static OECD 202)

Algae: *Selenastrum capricornutum* (new name: *Pseudokirchneriella subcapitata*)

EC50 (72 hours): 2900 mg/l based on: biomass

EC50 (72 hours): > 4000 mg/l based on: growth rate

EC20 (72 hours): 2900 mg/l based on: biomass

OECD Guideline 201 (algae, Growth Inhibition Test)

Algae/Cyanobacteria: *Pseudokirchneriella subcapitata* (also *Selenastrum capricornutum*).

EC50 (72 hours) 2,9 and EC20 1,0 mg/l, OECD Guideline 201

12.2. Sustainability and degradation

Biodegradability:

According to REACH Annex VII, column 2, the biodegradation test is not required, as this is an inorganic substance

12.3. Potential bioaccumulation

Calcium chloride easily dissociates into calcium and chloride ions, both of which are essential components of all animal organisms. It is not expected that calcium chloride would bioaccumulate or biologically concentrate

12.4. Mobility in soil:

Calcium chloride dissociates into calcium and chloride ions, and chloride ions are not adsorbed onto solid particles. The calcium ion may bind to soil particles or form stable inorganic salts with sulfate and carbonate ions; however, calcium is naturally found in the soil

12.5. PBT and vPvB expertise results

Assessment:

Not applicable to inorganic substances. According to REACH Regulation 1907/2006/EC, Annex XIII, PBT (Persistent, Bioaccumulative, and Toxic) assessment is not required for inorganic substances

12.6. Endocrine-disrupting properties:

The mixture does not contain substances with endocrine-disrupting properties according to the criteria set out in

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

Commission Delegated Regulation (EU) 2017/2100 or
Commission Regulation (EU) 2018/605

12.7. Other negative effect and additional information

N.a.

13. CONSIDERATIONS REGARDING MANAGEMENT

13.1. Methods of processing considerations

Products:

If recycling or reuse is not practical, the product should be disposed of in accordance with local or national regulations

Packaging:

If recycling or reuse is not practical, the packaging material should be disposed of in accordance with local or national regulations. Wash the packaging material with water and dispose of the water according to local regulations

14. TRANSPORT INFORMATION

14.1. UN number:

Not classified

14.2. UN shipping name:

Not classified

14.3. Transport hazard class(-es):

Not classified

14.4. Packaging group:

Not classified

14.5. Environmental risks:

Not expected

14.6. Special precautions for users:

Not necessary

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

14.8. Other information:

In accordance with international transport regulations (ADR – road transport, IMDG – sea transport and IATA – air transport) product does not identify as dangerous good

15. LEGISLATION INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for substances or mixtures:

The Safety Data Sheet is developed in accordance with Commission Regulation (EC) No. 830/2015. Labeling and classification are developed in accordance with the European Parliament and Council Regulation (EC) No. 1272/2008

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

(December 16, 2008) on the classification, labeling, and packaging of substances and mixtures, as well as the European Parliament and Council Regulation (EC) No. 1907/2006 (REACH). The European Parliament and Council Regulation (EU) No. 528/2012 (May 22, 2012) on the making available on the market and use of biocides and the Cabinet of Ministers Regulation No. 628 of August 27, 2013 "Requirements for activities with biocides".

In Latvia, the management of hazardous waste is carried out in accordance with the Law on Waste Management of October 28, 2010, and the amendments to the Law on Waste Management of December 16, 2010, Law No. 484 of June 21, 2011, on the "Procedure for the accounting, identification, storage, packaging, labeling, and transportation of hazardous waste" and the Cabinet of Ministers Regulation No. 795 of December 22, 2015 "Procedure for the accounting of chemical substances and mixtures and database," and Cabinet Regulation No. 302 of April 19, 2011 "Regulations on the Waste Classification and Properties That Make Waste Hazardous".

Transport information is developed in accordance with the UN European Agreement concerning the International Carriage of Dangerous Goods by Road, applicable from January 1, 2011, in accordance with the Convention concerning International Carriage by Rail, Annex B, Appendix 1 (in force from January 1, 2011).

The information was compiled considering the Cabinet of Ministers Regulations No. 325 of May 15, 2007 "Occupational safety requirements when working with chemical substances at workplaces", Regulation (EC) No. 2009/161, establishing the third list of indicative occupational exposure limit values and amending Commission Directive 2000/39/EC, Council Directive 98/24/EC (April 7, 1998) "On the protection of workers' health and safety against the risks related to chemical agents at work." Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Regulation (EC) No. 850/2004 on persistent organic pollutants

15.2. Evaluation of chemical safety: Safety evaluation is applicable, if available

16. OTHER INFORMATION

16.1. Not otherwise specified substance hazards:

Warning phrase explanations (check sections 2. and 3.)

H319 Causes serious eye irritation

Hazard class explanations (check sections 2. and 3.)

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT

in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

ICE BREAKER

Version No. 2.0

Print date: 4/11/2025

Eye Irrit. 2 Serious eye irritation, Category 2

Acronyms: 67/548/EEC = Directive of Hazardous Substances. 1999/45/EC = Directive of Dangerous Preparations. EC Regulation No 1272/2008 = Regulation for substance and mixture classification, marking and packaging. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Goods Code. RID = agreement for carriage of dangerous goods by rail. ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA = time-weighted average. STEL = short-term exposure limit values

AER – Exposure action rate, 8h; LC₅₀ – Median lethal concentration; LD₅₀ – Median lethal dose, EC₅₀ – Median effective concentration, vPvB – very persistent and very bioaccumulative; PBT – persistent, bioaccumulative and toxic

The information provided in this safety data sheet represents all available information at the time of publication. The available information is brought only to ensure safety measures, product use, recycling, storage, transportation and utilization, it is not a quality guarantee or quality certificate for the previously mentioned product processes, as they are not under our supervision. Information reflects only the mentioned product, under no circumstances would it reflect the product when used with different material.