

INFORMATION DATA SHEET

(This data sheet should not be considered a safety data sheet for the purposes of Article 31 of Regulation (EC) No. 1907/2006 (REACH))

D-GI-BU-Blu Ice Ultra



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/ENTERPRISE.

1.1 Product Identifier.

Product Name: Blu Ice Ultra
Product Code: D-GI-BU
REACH number: exempt from registration

1.2 Relevant identified uses of the substance or mixture and discouraged uses.

The device is designed to contain a phase change material (PCM) and is used in packaging intended for the transport of temperature-sensitive products. Its main function is to protect these products from temperature changes that could compromise their quality or integrity. PCM absorbs or releases heat based on the outside temperature, ensuring optimal thermoregulation inside the packaging.

Not recommended uses:

Uses different from those recommended.

1.3 Information on the supplier of the safety data sheet.

Enterprise: **Dryce S.r.l.**
address: Via Aosta 5
City: 20063 Cernusco sul Naviglio
Province: MI
Phone: +39 02 92393501
Fax: +39 0292141841
Email: info@dryce.it
Web: www.dryce.it

1.4 Emergency telephone number: +39 0292147368 (Only available during office hours; Monday-Friday; 08:00-17:00)

SECTION 2: HAZARD IDENTIFICATION.

2.1 Classification of the substance or mixture.

The product is not considered dangerous in accordance with EC Regulation 878/2020.
The product is not subject to authorization according to art. 32 of the Reach
The product does not contain SVHC substances >0.1% w/w.

2.2 Label Elements.

Not applicable

2.3 Other hazards.

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain substances with endocrine disrupting properties.

During normal use and in its original form, the product has no other adverse effects on health and the environment.

SECTION 3: COMPOSITION/INGREDIENT INFORMATION.

3.1 Substances.

Not applicable.

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3.2 Mixtures.

This mixture does not contain substances in a concentration higher than the values set out in Annex II of Regulation (EC) No. 1907/2006 as amended, which pose a danger to health or the environment, for which an occupational exposure limit is established within the EU, are classified as PBT/vPvB or are included in the candidate list.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

If in doubt or when symptoms of discomfort persist, consult a doctor. Never give anything through the mouth to unconscious people.

Inhalation.

Put the bumpy in the open air, keep it warm and resting, if breathing is irregular or stops, practice artificial respiration.

Eye contact.

Remove contact lenses if they are worn, and if it is easy to do. Wash your eyes thoroughly with clean, fresh water for at least 10 minutes keeping your eyelids open. Seek medical help. Do not allow the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash the skin vigorously with soap and water or a detergent appropriate for the skin. NEVER use solvents or thinners.

Ingestion.

If you accidentally swallowed it, seek medical attention immediately. Keep it at rest. NEVER induce vomiting.

4.2 Main symptoms and effects, both acute and delayed.

Irritant product, repeated or prolonged contact with the skin and mucous membranes can cause redness, blisters or dermatitis; Inhalation of spray mist or suspended particles may cause irritation of the respiratory tract. Some symptoms may not be immediate.

4.3 Indication of whether medical advice and special treatment are required immediately.

If in doubt or when symptoms of discomfort persist, consult a doctor. Never give anything through the mouth to unconscious people. Cover the affected area with dry sterile dressing material. Protect the affected area from pressure or friction.

SECTION 5: FIRE-FIGHTING MEASURES.

The product does not present any special risk in the event of fire.

5.1 Means of extinguishing.

Suitable extinguishing means:

Powder or CO2 fire extinguisher. In the event of more serious fires, alcohol-resistant foam and powdered water are also used.

Unsuitable extinguishing means:

Do not use direct water spray for extinguishing. In the presence of electrical voltage, the use of water or foam as a means of extinguishing is not acceptable.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be detrimental to health.

5.3 Recommendations for firefighters.

Cool deposits, cisterns or containers close to the source of heat or fire with water. Take into account the direction of the wind. Do not allow products used in firefighting to pass into ducts, sewers or waterways.

Fire protection equipment.

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Depending on the magnitude of the fire, the use of heat protective clothing, self-contained respiratory equipment, gloves, protective goggles or face masks and boots may be necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures.

For exposure control and personal protective measures, see section 8.

6.2 Environmental Precautions.

Not classified as hazardous to the environment, but avoid any discharge.

6.3 Methods and materials for containment and remediation.

Contain and collect any spilled product with inert absorbent material (earth, sand, vermiculite, diatomaceous earth...) and immediately clean the area with an appropriate decontaminant.

Dispose of product remnants in closed, suitable containers for disposal in accordance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and personal protective measures, see section 8.

For subsequent disposal of residues, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

Comply with occupational safety and hygiene legislation.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe the label instructions. Store between 5 and 25 °C, in a dry and well-ventilated place, away from heat and direct sunlight. Keep away from ignition points. Keep away from oxidizing agents and strongly acidic or alkaline materials. Do not smoke. Prevent unauthorized persons from entering.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Special End Uses.

Unavailable.

SECTION 8: EXPOSURE/PERSONAL PROTECTIVE CONTROLS.

8.1 Control parameters.

The product does NOT contain substances with Environmental Limit Values for occupational exposure. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure Controls.

In case of breakage of the package:

HAND PROTECTION

Protect your hands with category III work gloves.

For the final choice of the material of the work gloves (ref. EN 374 standard) the following must be considered: compatibility, degradation, breakdown time and permeation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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9.1 Information on fundamental physical and chemical properties.

Physical State: Liquid

Color: Not applicable/Not available due to the nature/properties of the product.

Odor: Not relevant/Not available due to the nature/properties of the product.

Olfactory threshold: Not relevant/Not available due to the nature/properties of the product.

Melting Point: -50°C

Freezing point: -50 °C

Boiling point or starting point of boiling and boiling range: Not applicable/Not available due to the nature/properties of the product.

Flammability: Not applicable/Not available due to the nature/properties of the product.

Lower explosive limit: Not applicable/Not available due to the nature/properties of the product.

Upper Explosive Limit: Not applicable/Not available due to the nature/properties of the product.

Flash point: >60 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product.

Decomposition Temperature: Not applicable/Not available due to the nature/properties of the product.

pH: Not relevant/Not available due to the nature/properties of the product.

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product.

Solubility: Not applicable/Not available due to the nature/properties of the product.

Water solubility: Not applicable/Not available due to the nature/properties of the product.

Fat solubility: Not applicable/Not available due to the nature/properties of the product.

N-octanol/water partition coefficient (logarithmic value): Not applicable/Not available due to the nature/properties of the product.

Vapour pressure: Not applicable/Not available due to the nature/properties of the product.

Absolute density: 0.96

Relative density: Not applicable/Not available due to the nature/properties of the product.

Relative vapor density: Not applicable/Not available due to the nature/properties of the product.

Particle characteristics: Not applicable/Not available due to the nature/properties of the product.

9.2 Other Information.

Not applicable/Not available due to the nature/ownership of the product.

SECTION 10: STABILITY AND RESPONSIVENESS.

10.1 Responsiveness.

The product does not pose a hazard to its responsiveness.

10.2 Chemical Stability.

Stable under the recommended handling and storage conditions (see epigraph 7).

10.3 Possibility of dangerous reactions.

The product does not cause dangerous reactions.

10.4 Conditions to Avoid.

Avoid any kind of improper handling.

10.5 Incompatible Materials.

Keep away from oxidizing agents and strongly alkaline or acidic materials, in order to avoid exothermic reactions.

10.6 Hazardous decomposition products.

It does not decompose if it is intended for its intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

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

There are no data available on the product.

Prolonged contact with the contents can cause the elimination of sebum from the skin, resulting in non-allergic contact dermatitis.

a) acute toxicity;

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ATE (Inhalation) of mixture: Not classified (no relevant components)
ATE (Oral) of mixture: Not classified (no relevant components)
ATE (Cutaneous) of the mixture: Not classified (no relevant components)
CALCIUM CHLORIDE
Method: OECD 201
Reliability (Klimisch score): 2
Tested substance: anhydrous calcium chloride (CaCl₂)
Species: rat (male/female)
Routes of exposure: oral
Results: LD50=2120 mg/kg (male); 2361 mg/kg (female)
Acute inhaled toxicity: Not available
Bibliographic reference: "SIDS Initial Assessment Report for calcium chloride"
Reliability (Klimisch score): 2
Tested substance: anhydrous calcium chloride (CaCl₂)
Species: New Zealand White
Routes of exposure: cutaneous
Results: LD50> 5000 mg/kg

b) skin corrosion/irritation;
Does not meet the classification criteria for this hazard class
CALCIUM CHLORIDE
Method: OECD 404
Reliability (Klimisch score): 1
Tested substance: anhydrous calcium chloride (CaCl₂)
Species: rabbit
Routes of exposure: cutaneous
Results: Non-irritating

c) serious eye damage/serious eye irritation;
Classified product:
Eye irritation, Category 2: Causes severe eye irritation.
CALCIUM CHLORIDE
Method: OECD 405
Reliability (Klimisch score): 1
Tested substance: anhydrous calcium chloride (CaCl₂)
Species: rabbit
Routes of exposure: eyes
Results: Highly irritating

d) respiratory or skin sensitization;
Inconclusive data for classification.

e) germ cell mutagenicity;
CALCIUM CHLORIDE
Method: equivalent or similar to OECD 471 - In vitro test
Reliability (Klimisch score): 2
Species: Chinese hamster lung fibroblasts (V79)
Results: negative without metabolic activation.
In vivo test: not available

f) carcinogenicity;
CALCIUM CHLORIDE
Calcium chloride is not genotoxic in vivo.
The safety of the use of calcium chloride as a food additive has recently been re-evaluated by the Panel EFSA's Scientific Opinion on Food Additives and Flavourings (Scientific Opinion of 6 June 2019, doi: 10.2903/J.EFSA.2019.5751).
The
The evaluation confirmed that there is no concern regarding carcinogenicity.
Based on this information, it is concluded that the substance is not carcinogenic and that a study is not indicated on the carcinogenicity of calcium chloride.

g) toxicity for reproduction;

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CALCIUM CHLORIDE

Calcium and chloride are essential nutrients for the physiology and homeostasis of humans. Calcium and chloride are both naturally present in food in significant quantities. In addition, it has been reported that the use of calcium chloride as a food additive (E 509) does not raise safety concerns for the use and use levels reported by EFSA (2019a). It is believed that therefore that no further testing of the reproductive toxicity of calcium chloride is necessary.

(h) Specific Target Organ Toxicity (STOT) - single exposure;
Inconclusive data for classification.

(i) specific target organ toxicity (STOT) - repeated exposure;
Does not meet the classification criteria for this hazard class

CALCIUM CHLORIDE

In accordance with column 2 of Annexes VIII and IX of REACH, repeated dose toxicity studies (required in section 8.6) are not necessary if a substance undergoes immediate disintegration and there are sufficient data on the products of cleavage. In aqueous solution, calcium chloride immediately dissociates into Ca²⁺ and Cl⁻ ions, which are both essential nutrients for humans. Consistently, JECFA did not consider it necessary to establish an ADI for calcium chloride. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary.

j) danger in the event of aspiration.

Does not meet the classification criteria for this hazard class

CALCIUM CHLORIDE

Study not scientifically applicable on the basis of the physical state of the substance.

Ref. In accordance with Section 2 of Annex XI to the REACH Regulation, it is not necessary to conduct the test due to the properties of the substance. The substance tested is a solid, so it does not present any danger in the event of aspiration

11.2 Information on Other Hazards.

Endocrine-disrupting properties

This product does not contain any components with endocrine-disrupting properties that have an effect on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

CALCIUM CHLORIDE

LC50 - Fish 4630 mg/l/96h (Pimephales promelas; EPA/600/4-90/027, EPA/600/6-91/003)

EC50 - Crustaceans 2400 mg/l/48h (Daphnia magna; OECD 202)

EC50 - Algae / Aquatic Plants 2900 mg/l/72h (Pseudokirchneriella subcapitata; OECD 201

12.2 Persistence and degradability.

CALCIUM CHLORIDE

Solubility in water 745 mg/l at 20°C (CRC Handbook of Chemistry and Physics, 1994)

Degradability: The study is not applicable because the substance is inorganic.

(Ref.column 2 of Annex VII / Annex XI of the Regulation REACH)

No information is available on the degradability of the substances present.

No information on the persistence and degradability of the product is available.

12.3 Bioaccumulation potential.

CALCIUM CHLORIDE

Possibility of accumulation of chlorides in soil and plants.

12.4 Mobility in the soil.

CALCIUM CHLORIDE

Absorption potential (Koc, organic carbon absorption)

Air: mobility in the form of a solid aerosol

Water/soil/sediment: soluble

Water/soil/sediment: mobile

Soil/sediments: adsorption on soil organic and mineral components

Tested substance: Calcium

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Disposal in sewers or waterways is prohibited.
Avoid penetration into the soil.

12.5 PBT and vPvB Assessment Results.

No PBT and vPvB product information is available.

12.6 Endocrine Disrupting Properties.

This product does not contain components with endocrine-disrupting properties and have an effect on the environment.

12.7 Other adverse effects.

The product does not fall within the scope of Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

There is no information on other negative effects on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste Treatment Methods.

Reuse, if possible. The content is to be considered special waste. The hazardousness of the waste that this product must be evaluated according to the applicable legal provisions. (Ref. Annex D – Part IV of Legislative Decree no. 152/2006 and subsequent amendments and adaptations).

Disposal must be entrusted to a company authorized to manage waste, in compliance with national legislation and possibly local.

The legal responsibility for disposal lies with the producer/holder of the waste.

Different EWC (European Waste Code) codes may be applied to this product according to the specifications circumstances that generated the waste, any alterations and contamination.

SECTION 14: TRANSPORTATION INFORMATION.

Not hazardous for transport purposes. In the event of an accident and disposal of the product act as a point 6.

14.1 UN number or ID number.

Not hazardous for transport purposes.

14.2 Official UN designation of transport.

Description:

ADR/RID: Not hazardous for transport purposes.

IMDG: Not hazardous for transport purposes.

ICAO/IATA: Not hazardous for transport purposes.

14.3 Classes of danger associated with transport.

Not hazardous for transport purposes.

14.4 Packaging Assembly.

Not hazardous for transport purposes.

14.5 Environmental hazards.

Not hazardous for transport purposes.

Ship transport, FEm - Emergency cards (F – Fire, S – Spills): Not applicable.

14.6 Special precautions for users.

Not hazardous for transport purposes.

14.7 Bulk shipping in accordance with IMO acts.

Not hazardous for transport purposes.

SECTION 15: REGULATORY INFORMATION.

15.1 Health, safety and environmental laws and regulations specific to the substance or mixture.

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The product is not affected by Regulation (EU) No 528/2012 on the marketing and use of biocidal products.
The product is not affected by the process established in Regulation (EU) No 649/2012, relating to the export and import of hazardous chemicals.

15.2 Chemical Safety Assessment.

Not applicable.

SECTION 16: OTHER INFORMATION.

It is advisable to offer basic training on safety and hygiene at work.

Abbreviations and acronyms used:

CEN: European Committee for Standardization.

DPI: Personal protection team.

Main bibliographic references and data sources:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information contained in this sheet corresponds to our knowledge at the time of printing. The information is used to give you information about the safe use of the product indicated on the safety data sheet, for as regards storage, processing, transport and disposal. The indications have no value for others products.