

Blu Ice®

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier : **Blu Ice**

Relevant identified uses of the substance or mixture : **Blu Ice is a device, containing a gelatinous substance with heat accumulation properties. Blu Ice is usually used in thermostatisation of packages for the internal temperature control. Blu Ice device consists of a packaging film compatible with food product, ensuring maximum flexibility for all applications.**

Do not open or perforate the package.

The substance used to manufacture Blu Ice device is inedible; so ingestion of the substance is strictly prohibited.

Identification of the company/undertaking

Company : Dryce S.r.l.

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2. Hazards Identification

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Classification of substances and mixtures

The product is not classified as dangerous according to the provisions laid down in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments).

3. Composition/Information on Ingredients

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

The product does not contain ingredients classified as being dangerous to human health and to the environment pursuant to the provisions set forth in Directive 67/548/EEC and/or in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements.)

4. First Aid Measures

What stated below refers to the refers to accidental contact with the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Description of first aid measures

Not specifically required. Nevertheless, observance of good industrial hygiene is recommended.

Most important symptoms and effects, both acute and delayed.

No episodes of damage to health ascribable to the product have been reported.

Identification of any immediate medical attention and special treatment needed.

Not available.

5. Firefighting Measures

Extinguishing media

SUITABLE EXTINGUISHING MEDIA : Choose the most appropriate media for the specific situation.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASON : None in particular.

Special hazard arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE : The product is neither flammable nor combustible.

Advice to firefighters

EQUIPMENT

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Normal fire fighting clothing, i.e. protective fire kits (EN469), gloves (EN659) and boots (HO A29 or A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (EN 137).

6. Accidental Release Measures

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Personal precautions, protective equipment and emergency procedures.

Use breathing equipment if fumes or powders are released into the air. These recommendations are valid for both authorized staff and those involved in emergency response.

Environmental Precautions

Prevent the product from entering soil, surface water and groundwater.

Methods and materials for containment and cleaning up.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Reference to other sections.

Any information on personal protection and disposal is given in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Read and understand all the sections in the Material Safety Data Sheet before handling the product. Avoid the dispersion of the product into the environment. Do not eat, drink or smoke when handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities.

Store the product in containers so their labels face forwards. Store containers away from incompatible materials (see section 10).

Specific End Use(s) : Not available.

8. Exposure Controls/Personal Protection

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Control Parameters : Not available.

Exposure Controls : General safety measures when handling chemicals are applicable.

HAND PROTECTION : Not required.

EYE PROTECTION : Not required.

SKIN PROTECTION : Not required.

RESPIRATORY PROTECTION : Not required.

9. Physical and Chemical Properties

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Information on Basic Physical and Chemical Properties.

Appearance : Gelatinous liquid

Color : Colorless

Odor : Odorless

Odor threshold : Not available

pH : 6,9

Melting point or freezing point : Not available

Initial boiling point : Not available

Boiling range : Not available

Flash point : > 60°C

Evaporation rate : Not available

Flammability of solids and gases : Not available

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Lower flammability limit	: Not available
Upper flammable limit	: Not available
Lower explosive limit	: Not available
Upper explosive limit	: Not available
Vapor pressure	: 730 mmHg
Vapor density	: Not available
Relative density	: 0,95 Kg/l
Solubility	: Soluble in water
Partition coefficient(n/octanol water)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: > 250 cp
Explosion properties	: Not available
Oxidizing properties	: Not available
Other information	: Not available

10. Stability and Reactivity

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Reactivity	: No specific reactivity hazard associated with this product in normal condition of use.
Chemical stability	: The product is stable in normal conditions of storage.
Possibility of hazardous reactions	: No hazardous reactions are foreseeable in normal conditions of use and storage.
Conditions to avoid	: None in particular. However the usual precautions used for chemical products should be respected.
Incompatible materials	: Not available.
Hazardous decomposition products	: Not available.

11. Toxicological Information

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Exposure to the product is not thought to produce adverse health effects. Nevertheless, observance of good industrial hygiene is recommended.

Information on toxicological effects	: Not available.
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12. Ecological Information

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Toxicity	: Not available.
Persistence and Degradability	: Not available.
Bio-accumulative Potential	: Not available.
Mobility in soil	: Not available.
Results of PBT and vPvB assessment	: This product does not contain any PBT or vPvB substances greater than 0,1%.
Other adverse effects	: Not available.

13. Disposal Considerations

Waste treatment methods.

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Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulation. Avoid dispersal of spilt material and runoff and contact with soil, waterways and sewers.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport Information

The product is not dangerous under current provisions of the Code of International Carriage of Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. Regulatory Information

What stated below refers to the substance used to produce Blu Ice device.

Blu Ice device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

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

Seveso Category : None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. : None.

Substance in Candidate List (Art. 59 REACH) : None.

Substances subject to authorization (Annex XIV REACH) : None.

Substances subject to export notification obligation EC Reg. 689/2008 : None.

Substances subject to Rotterdam Convention : None.

Substances subject to Stockholm Convention : None.

Healthcare controls : Not available.

Chemical Safety Assessment :

No chemical safety assessment has been processed for the mixture and substances it contains.

16. Other Information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 2 : Ocular Irritation, Category 2.

H319 : Causes serious eye irritation.

Text of Risk (R) phrases mentioned in section 2-3 of the sheet:

R36 : IRRITATING TO EYE

Legend:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Concentration of a compound where 50% of its maximal effects is observed
- EC NUMBER: identifier number in ESIS (European Chemical Substances Information System)
- CLP: Regulation (EC) n° 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the Classification and Labeling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Inhibitory Concentration
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX NUMBER: Index number in Annex VI to CLP
- LC50: Lethal Concentration (50%)
- LD50: Lethal Dose 50% - OEL: Occupational exposure limit
- PBT: Persistent Bioaccumulative and Toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: Permissible Exposure Limits
- PNEC: Predicted no-effect concentration

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- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by Road
- TLV: Threshold Limit Value
- TLV CEILING: absolute exposure limit that should not be exceeded at any time
- TLV STEL: - TLV Short-Term Exposure Limit
- TLV TWA: TLV Time-Weighted Average
- VOC: Volatile Organic Compound
- vPvB: very Persistent and very Bioaccumulative

General Biography:

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Apt. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Apt. CLP) of the European Parliament
8. The Merck Index 10th edition
9. Handling Chemical Safety
10. Niosh – Registry of Toxic Effects of Chemical Substances
11. INRS – Fiche Toxicologique (toxicological sheet)
12. Patty – Industrial Hygiene Toxicology
13. N.I. Sax – Dangerous properties of Industrial Materials – 7, 1989 Edition
14. ECHA Website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee of any specific product property.

The use of this product is not subject to our direct control; therefore users must under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide personnel with a proper chemical handling training.

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