BLU ICE ULTRA®

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identification

Product code : **GSB-U**

Product name : **Blu Ice ULTRA**

1.2 Relevant identified uses of the substance or mixture and unintended uses

Description/Use : Blu Ice ULTRA is a device containing a gel substance that is able to withhold heat.
Blu Ice ULTRA devices are generally employed for packaging thermostatation, for controlling internal temperature.
Blue Ice ULTRA devices make use of a packaging film that is compatible with food to provide maximum flexibility.
DO NOT pierce or open the package.
The substance used for producing Blu Ice ULTRA devices is not edible; thus it is forbidden to swallow.

1.3 Identification of the company/undertaking

Company : Dryce S.r.l.
Via Aosta, 5 – Cernusco sul Naviglio – 20063 Milano
☎ +39 (0) 2 92147368 🖷 +39 02 92141841

Emergency telephone number : +39 335 6931559

E-Mail : marco_malasomma@dryce.it

Section 2 Hazards Identification

What stated below refers to the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

2.1 Classification of substances and mixtures contained in the packaging of Blu Ice ULTRA devices.

The substances, used to produce Blu Ice ULTRA and contained in its package, is classified as dangerous according to the provisions laid down in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). Thus, such substance requires a safety data sheed in compliance with dispositions of the Regulation (EC) 1907/2006 and subsequent amendments.
Any additional information pertaining risks for health or environment are detailed in section 11 and 12 of this document.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments and adjustments.

Classification and hazard statements:

Eye Irrit. 2 H319

2.1.2. Directive 67/548/EEC and 1999/45/EC and subsequent amendments and adjustments.

Hazard symbols:
Xi
R-phrases:
36

The complete text of Risk Phrases (R) and hazard statements (H) is present in section 16

2.2 Label Elements

Hazard labelling in compliance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Signal word	:	Warning
H319	:	Causes serious eye irritation.
P264	:	Wash thoroughly ater handling.
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
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, Get medical advice/attention.

2.3 **Additional hazards** : Information not available

Section 3 Composition/Information on Ingredients

What stated below refers to the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

3.1 **Substances.**
Non-relevant information.

3.2 **Mixtures.**
Contains:

Identification.	**Conc. %.**	**67/548/EEC Classification.**	**1272/2008 (CLP) Classification.**
Inorganic Salt	5 – 55	Xi R36	Eye Irrit. 2 H319

Note: Value greater than excluded range.

The complete text of Risk Phrases (R) and hazard statements (H) is present in section 16.
T+ = Very Toxic(T+), T = Toxic(T), Xn = Noxious(Xn), C = Corrosive(C), Xi = Irritating(Xi), O = Combustive(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Easily Flammable(F), N = Dangerous to the environment(N)

Section 4 First Aid Measures

What stated below refers to accidental contact with the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

4.1 **Description of first aid measures**

Eye Contact	:	Remove contact lenses if present. Wash immediately and thoroughly with water for at least 15 minutes, wide opening eyelids. If eye irritation persists, get medical advice/attention.
Skin Contact	:	Remove/Take off immediately all contaminated clothing. Wash immediately with plenty of water. If skin irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
Inhalation	:	Remove victim to fresh air. If breathing is difficult, get medical advice/attention.
Ingestion	:	Get immediate medical advice/attention. Induce vomit only on medical advice. Don't administer anything oral if victim is unconscious and if not authorized by a doctor.

4.2 Main symptoms and effects, both acute and delayed

For symptoms caused by contained substances, see sec. 11.

4.3 Indication of necessity to consult a doctor immediately or of special treatments

Information not available.

Section 5 Fire-fighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA : Suitable extinguishing media are: carbon dioxide, foam, dust and sprayed water.

NON-SUITABLE EXTINGUISHING MEDIA : None in particular.

5.2 Special hazards deriving from the substance or from the mixture

HAZARDS CAUSE BY EXPOSURE IN CASE OF FIRE : Avoid inhalation combustion products.

5.3 Recommendations for fire fighters

GENERAL INFORMATION : Cool down containers with water jets to avoid product decomposition and the development or substances potentially dangerous for healt. Always wear all the firefighting gear. Collect extinguishing water which must not leak into sewers. Dispose contaminated water used for extinguishing fire and fire residue according to in force regulations.

EQUIPMENT : Normal clothing for fire-fighting, such as open-circuit compressed air breathing apparatus (E 137), protective clothing (EN469), protective gloves (EN 659) and boots for fire-fighters (HO A29 or A30).

Section 6 Accidental release measures

What stated below refers to accidental release of the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

6.1 Personal precautions, protective devices and emergency procedures.

Stop the release if there is no danger.
Wear protective gear (including individual protection devices as detailed in section 8 of the safety data sheet) to prevent skin, eye and personal clothing contamination. These statements apply to both workers and emergency handlers.

6.2 Environmental precautions

Prevent the product from entering sewers, superficial waters, groundwater.

6.3 Containment and clean-up methods

Collect the leaked product in a suitable container. Evaluate the compatibility of the container with the product, referring to section 10.
Absorb any residue with inert absorbent material.
Ventilate the area where the release occurred. Check any incompatibilities with the material of containers in section 7. Disposal of the contaminated material must be carried out according to disposition of section13.

6.4 Reference to other sections

Additional information about personal protection and disposal are in section 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet.
Prevent leaking of the content of the package to the environment.
Do not eat, drink or smoke when used.
Remove contaminated clothing and protection devices before accessing lunch areas.

7.2 Conditions for safe storage, including possible incompatibilities

Sotre in the original package. Keep away from direct sunlight. Keep the container away from incompatible materials, checking section 10.

7.3 Specific uses

Information not available.

Section 8 Exposure control/Personal protection

What stated below refers to accidental exposure with the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

8.1 Control parameters

Information not available.

8.2 Exposure control

Considering that use of technical suitable measures ought to be prioritized over personal protection gear, ventilate the working area via effective local aspiration. Personal protection devices must be compliant with regulations in force reported below.

HAND PROTECTION	:	Protect hands with work gloves of category I (ref. Directive 89/686/EEC and EN 374) such as latex, PVC or equivalent gloves. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. In case of compounds, gloves resistance must be verified beforehand as it's not predictable. Glove's breakthrough time depends on exposure duration.
EYE PROTECTION	:	Wear hermetic safety goggles (ref. EN 166 regulation).
SKIN PROTECTION	:	Wear work clothing with long sleeves and safety shoes for professional uses of category I (ref. Directive 89/686/EEC and EN 344 regulation). Wash with water and soap after removing clothing.
RESPIRATORY PROTECTION	:	In the case of exceeding threshold value (if available) of one or more substances contained in the product, with reference to the daily work environment exposition or to a fraction stated by the prevention service and company protection, wear a mask with filter of type B or of universal type whose class (1, 2, or 3) must be chosen with regards to limit concentration of use (ref. EN 141 regulation). Use of respiratory protection systems, such as mask as descripted above, is necessary when no technical measures to limit worker exposure are in place. Mask protection is nonetheless limited. In the case that the substance is odourless or its olfactory threshold is greater than the limit of exposure and in case of emergency or when exposure level is unknown or oxygen concentration in the working area is less than 17% in volume, wear a open-circuit compressed air breathing apparatus (ref. EN 137 regulation) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. EN 138 regulation)
Environmental exposure control	:	Emissions from productive processes, including those from ventilation machines, should be checked to comply environment protection legislation.

Section 9 Physical and chemical properties

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

9.1 Information on fundamental physical and chemical properties

Physical state	:	Gel liquid.
Colour	:	Ice
Odour	:	Odourless.
Olfactory threshold	:	Not available
Ph	:	10
Melting point	:	Not available
Boiling point	:	Not available
Boiling interval	:	Not available
Flammability point	:	>60°C
Evaporation velocity	:	Not available
Flammability of solid and gas	:	Not available
Lower bound of flammability	:	Not available
Upper bound of flammability	:	Not available
Lower bound of explosiveness	:	Not available
Upper bound of explosiveness	:	Not available
Vapor pressure	:	Not available
vapor density	:	Not available
Relative density	:	1,303 Kg/l
Solubility	:	Soluble in water
Partition coefficient: n- octanol/water	:	Not available
Self-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available
Explosive properties	:	Not available
Oxidiser properties	:	Not available

9.2 Additional information

Information not available

Section 10 Stability and reactivity

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

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

10.1	**Reactivity**	:	There is no particular hazard of reaction with other substances in normal operational condition.
10.2	**Chemical stability**	:	The product is Stable under normal conditions of use and storage.
10.3	**Possibility of dangerous reactions**	:	Under normal conditions of use and storage no hazardous reactions are predictable.
10.4	**Conditions to avoid**	:	None in particular. Use usual precautions when handling chemical products.
10.5	**Incompatible materials**	:	Information not available.

10.6 **Hazardous decomposition products** : Information not available

Section 11 Toxicological information

What stated below refers to the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

11.1 **Information on toxicological effects**

As there is no experimental data on the product itself, potential dangers of the products for health have been evaluated on the bases of the properties of the composing elements, according to criteria stated in specific regulation for classification. Consider therefore the concentration of each dangerous substance potentially reported in section 3 to evaluate toxicological effects deriving from exposure to the product.

Acute symptomps: eye contact provoke irritation; symptomps include: reddening, edema, pain and lacrimation.
Inhalation of vapours can cause moderate irritation of the upper airways; skin contact can cause moderate irritation.
Ingestione can cause health problems, which include abdomen pain and burn, nausea and vomit.

Inorganic Salt
LD50 (Oral). 1000 mg/kg Rat
LD50 (Cutaneous). 2630 mg/kg Rat

Section 12 Ecological information

What stated below refers to the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

Use according to best work practices, avoiding dispersion of the product in the environment. Call competent authorities if the product reaches water or contaminates soil or vegetation.

12.1 **Toxicity**

Thickener
LC50 (96h) – Fishes.
> 100 mg/l Oncorhynchus mykiss (Trota iridea); Lepomis macrochirus (Pescesale Bluegill)

12.2 **Persistence and Degradation**

Information not available

12.3 **Bioaccumulation potential**

Information not available

12.4 **Mobility in soil**

Information not available

12.5 **Results of PBT and vPvB assessment**

Based on available data, the product does not contain PBT or vPvB substances in percentages greater than 0,1%.

12.6 **Other adverse effect**

Information not available

Section 13 Disposal considerations

13.1 **Waste treatment methods**

Residues of the product are to be considered special hazardous waste. Hazardousness of waste containing this product must be evaluated according to regulation in force.
Disposal must be entrusted with an authorized company in respect of national and local regulation in force.

Strictly prevent product from entering sewers, superficial waters, groundwater.

CONTAMINATED PACKAGES
Contaminated packages must be sent for recovery or disposal in respect to the national regulation on waste management.

Section 14 Information on transport

The product is to be considered non hazardous according to regulation in force about transport of dangerous goods by road (A.D.R.), by rail (RID), by water (IMDG Code) and by air (IATA).

Section 15 Regulatory information

What stated below refers to the substance used to produce Blue Ice ULTRA device.
Blue Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.

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

Seveso category. None.

Restrictions related to the product or the substances contained according to ANNEX XVII Regulation (EC) 1907/2006.

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorization (ANNEX XIV REACH).

None.

Substances subject to export notification obligation Reg. (EC) 689/2008:

None.

Substances subject to Rotterdam convention:

None.

Substances subject to Stockholm convention:

None

Health checks for worker producing Blu Ice ULTRA

Workers exposed in production to this chemical agent dangerous for the health must be put under observation according to art 41 D.Lgs. 81 of 9 April 2008 except when the risk for safety and health of the worker has been deemed irrelevant, according to art. 224 Workers exposed during production to this hazardous chemical agent must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008, except that the risk to the safety and health of the worker has been considered irrelevant, as provided by art. 224 clause 2.

15.2 Chemical safety assessment
It hasn't been performed a chemical safety assessment for the mixture and substances contained.

Section 16 Other information

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

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

Hazard phrases (H) mentioned in sections 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
H319	Cause severe eye irritation

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

R36	IRRITATING TO EYES

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
- 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
- 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 BIBLIOGRAPHY:
1. 1999/45/EC Directive and subsequent amendments
2. 67/548/EEC Directive and subsequent amendments and adjustments
3. (EC) 1907/2006 Regulation of Europaen Parliament (REACH)
4. (EC) 1272/2008 Regulation of Europaen Parliament (CLP)
5. (EC) 790/2009 Regulation of Europaen Parliament (I Atp. CLP)
6. (EC) 453/2010 Regulation of Europaen Parliament
7. (EC) 286/2011 Regulation of Europaen Parliament (II Atp. CLP)
8. The Merck Index. Ed. 10
9. Handling Chemical Safety
10. Niosh - Registry of Toxic Effects of Chemical Substances
11. INRS - Fiche Toxicologique
12. Patty - Industrial Hygiene and Toxicology

13. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
14. Web site ECHA agency

Indication of Changes: Revised safety data sheet for the updating of the Logo.

This safety data sheet has been compiled in compliance with European Directives in force and is applicable to all the countries which have included those Directives into their national legislation. 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.

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