

GREEN ICE ULTRA®

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

1.1 Product Identifier

Product code : **GSG-U**
Product name : **Green Ice ULTRA**

1.2 Relevant identified uses of the substance or mixture

Description/Use : Green Ice ULTRA is a device containing a gelatinous substance with heat accumulation properties. Green Ice ULTRA is usually used in thermostatisation of packages for the internal temperature control. Green Ice ULTRA 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 Green Ice ULTRA device is inedible; so ingestion of the substance is strictly prohibited.

1.3 Identification of the company/undertaking

Company : Dryce S.r.l.
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Section 2 Hazards Identification

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

The product is not classified as hazardous pursuant to the provisions set forth in Regulation (EC) 1272/2008 (CLP and subsequent amendments and adjustments).

Section 3 Composition/Information on Ingredients

**What stated below refers to the substance used to produce Green Ice ULTRA device.
Green Ice ULTRA 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 adjustments).

Section 4 First Aid Measures

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

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

4.2 Most important symptoms and effects, both acute and delayed

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

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4.3 Identification of any immediate medical attention and special treatment needed

Information not available.

Section 5 Firefighting Measures**5.1 Extinguishing media**

SUITABLE EXTINGUISHING MEDIA : The extinguishing media are the typical ones: carbon dioxide, foam, chemical powder and water spray.

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

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE : Do not breathe combustion products.

5.3 Advice to fire-fighters

GENERAL INFORMATION : Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations

EQUIPMENT : Normal fire fighting clothing, such as a selfcontained open circuit positive pressure compressed air breathing apparatus (EN 137), protective fire kits (EN469), gloves (EN 659) and boots (HO A29 oppure A30).

Section 6 Accidental Release Measures

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

Green 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 equipment and emergency procedures.

Use breathing equipment if fumes or powders are released into the air. These guidelines apply to both authorized staff and those involved in emergency intervention.

6.2 Environmental Precautions

The product must not penetrate the sewers, surface waters and ground waters.

6.3 Methods and materials for containment and cleaning up

Soak up any leaked product with earth or absorbent inert material. Collect the majority of the remaining material and use jets of water to eliminate product residues. Contaminated material should be disposed of in compliance with the provisions set forth in section 13.

6.4 Reference to other sections

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

Section 7 Handling and Storage**7.1 Precautions for safe handling**

Read and understand all the sections in the Material Safety Data Sheet before handling the product.

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Avoid the dispersion of the **content of the package** into the environment.
Do not eat, drink or smoke when handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Leave products in their original containers with the contents clearly identified on the labels. Store containers away from incompatible materials (see section 10).

7.3 Specific End Use(s)

Not available.

Section 8 Exposure Controls/Personal Protection

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

Green 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

Not available.

8.2 Exposure Controls

General safety measures when handling chemicals are applicable.

RESPIRATORY PROTECTION : Not required.

EYE PROTECTION : Not required.

SKIN PROTECTION : Not required.

RESPIRATORY PROTECTION : Not required.

Section 9 Physical and Chemical Properties

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

9.1 Information on Basic Physical and Chemical Properties

Appearance : Gelatinous liquid.
Colour : White
Odour : Odorless.
Olfactory threshold : Not available
Ph : 7,5
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
Lower flammability limit : Not available
Upper flammability limit : Not available
Lower explosive limit : Not available
Upper explosive limit : Not available
Vapor pressure : Not available
Vapor density : Not available

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Relative density	: 0,95 Kg/l
Solubility	: Not available
Partition coefficient: n-octanol/water	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: Not available
Oxidizing properties	: Not available

9.2 Other information

Not available.

Section 10 Stability and Reactivity**What stated below refers to the substance used to produce Green Ice ULTRA device.****Green Ice ULTRA device is not considered to be dangerous in the absence of leakage of the substance contained in the package.**

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

Section 11 Toxicological Information**What stated below refers to the substance used to produce Green Ice ULTRA device.****Green Ice ULTRA 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.

11.1 Information on toxicological effectsInorganic salts
LD50 (Oral). 3000 mg/kg Rat**Section 12 Ecological Information****What stated below refers to the substance used to produce Green Ice ULTRA device.****Green Ice ULTRA 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.

12.1 Toxicity

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Thickener
LC50 (96h) – fish
> 100 mg/l Oncorhynchus mykiss (rainbow trout); Lepomis macrochirus (Bluegill)

12.2 Persistence and Degradability

Not available

12.3 Bio-accumulative Potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

On the bases of available data, this product does not contain any PBT or vPvB substances greater than 0,1%.

12.6 Other adverse effects

Not available

Section 13 Disposal Considerations**13.1 Waste treatment methods**

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.

Section 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

Section 15 Regulatory Information

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

Green 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/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.

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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.

15.2 Chemical Safety Assessment

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

Section 16 Other Information

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
- 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. 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

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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

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

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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