

POLAR PADS 2.0

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

1.1 Product Identifier

Product code : PP2
Product name : POLAR PADS 2.0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Description/Use : **POLAR PADS 2.0** is a device, containing a gelatinous substance with heat accumulation properties. POLAR PADS 2.0 devices are generally used in thermostatisation of packaging for internal temperature control. POLAR PADS 2.0 devices consist 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 POLAR PADS 2.0 devices is inedible; therefore, ingestion of the substance is strictly prohibited.

1.3 Identification of the company/undertaking

Company : Dryce S.r.l.
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Emergency telephone number : +39 335 6931559
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Section 2 Hazards Identification

**What stated below refers to the substance used to produce POLAR PADS 2.0 devices and contained in the package.
POLAR PADS 2.0 devices are 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 dangerous pursuant to the provisions laid down 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 POLAR PADS 2.0 devices and contained in the package.
POLAR PADS 2.0 devices are 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 harmful to health or 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).

Section 4 First Aid Measures

**What stated below refers to accidental contact with the substance used to produce POLAR PADS 2.0 devices and contained in the package.
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4.1 Description of first aid measures

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

4.2 Main symptoms and effects, both acute and delayed

No known episodes of harm to health caused by the product.

4.3 Identification of any immediate medical attention and special treatment needed

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Information not available.

Section 5 Firefighting Measures

5.1 Extinguishing media

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

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

5.2 Special hazard arising from the substance or mixture

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

5.3 Advice to firefighters

EQUIPMENT : Normal firefighting 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).

Section 6 Accidental Release Measures

What stated below refers to accidental release of the substance used to produce POLAR PADS 2.0 devices and contained in the package.

POLAR PADS 2.0 devices are 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 recommendations are valid for both workers and those involved in emergency response.

6.2 Environmental Precautions

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

6.3 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 water jets. 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 sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling

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

Store the product in containers clearly labelled. Store containers away from incompatible materials (see section 10).

7.3 Specific End Use(s)

Information not available.

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Section 8 Exposure Controls/Personal Protection

What stated below refers to accidental exposure to the substance used to produce POLAR PADS 2.0 devices and contained in the package.

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8.1 Control Parameters

Information not available.

8.2 Exposure Controls

General safety measures when handling chemicals are applicable.

RESPIRATORY PROTECTION : Not required.

EYE PROTECTION : Not required.

HAND PROTECTION : Not required.

SKIN PROTECTION : Not required.

Section 9 Physical and Chemical Properties

What stated below refers to the substance used to produce POLAR PADS 2.0 devices and contained in the package.

9.1 Information on Basic Physical and Chemical Properties

Appearance : Gelatinous liquid.
Colour : Colourless
Odour : Odourless
Olfactory 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. : Non-flammable
Lower flammability limit : Not available
Upper flammability 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

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Explosive properties : Not available
Oxidizing properties : Not available

9.2 Other information
Information not available.

Section 10 Stability and Reactivity

**What stated below refers to the substance used to produce POLAR PADS 2.0 devices and contained in the package.
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- 10.1 Reactivity** : No specific hazard of reactions with other substances under 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 under normal conditions of use and storage.
- 10.4 Conditions to avoid** : None in particular. However, usual precautions used when handling chemical products should be applied.
- 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 POLAR PADS 2.0 devices and contained in the package.
POLAR PADS 2.0 devices are 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

Section 12 Ecological Information

**What stated below refers to the substance used to produce POLAR PADS 2.0 devices and contained in the package.
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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**
Information not available
- 12.2 Persistence and Degradability**
Information not available
- 12.3 Bio-accumulative Potential**
Information not available
- 12.4 Mobility in Soil**
Information not available
- 12.5 Results of PBT and vPvB assessment**

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

12.6 Other adverse effects
Information not available

Section 13 Disposal Considerations

13.1 Waste treatment methods

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, 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 POLAR PADS 2.0 devices and contained in the package.
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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.

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

None.

Substances subject to Rotterdam Convention:

None.

Substances subject to Stockholm Convention:

None.

Health checks.

Information not available.

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15.2 Chemical Safety Assessment

No chemical safety assessment has been performed for the mixture and substances the product contains.

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 Labelling 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 Bio-accumulative 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 Bio-accumulative.

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
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

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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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