

1. Identification of the substance / preparation and of the company / undertaking

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| Trade name | NUDEC®PC |
| Name of the product | Polycarbonate Sheets |
| Product Use | General application in the construction sector (enclosures, glassing, covers...), thermoforming. |
| Responsible for placing on the market <i>Trade name of the firm</i> | See above. |
| Emergency number <i>Official advisory body</i> | Emergency call: (+34) 93.713.27.00. National Institute of Toxicology (Madrid, Spain): (+34) 91.562.04.20. Danish Poison Center (Giftlinjen): +45 8212 1212 |

2. Hazards Identification

This product has not been classified as a dangerous substance or preparation according to the Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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| Label elements | Not applicable |
| Symptoms related to use | |
| Inhalation | Fine dust may cause irritation of respiratory system and mucous. |
| Skin contact | The prolonged contact with skin does not irritate. In normal process' conditions, the material can be heated at high temperature; in contact with hot material, may cause severe thermal burns. |
| Eye contact | Solid form or fine dust of the product may cause irritation to ocular mucous or ocular lesions. |
| Ingestion | Ingestion during handling is not likely. The ingestion of small quantities does not produce noxious effects. It may cause an obstruction in case of ingestion. Seek medical advice immediately. |
| Adverse environmental effects | This product is not soluble in water. Because of its structure, the product should not be dangerous for aquatic life. Non biodegradable. |
| Adverse physicochemical effects | Combustible if exposed to flames. |

3. Composition/information on ingredients

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| Chemical Name | Polycarbonate based on Bisphenol A |
| Composition | ≥ 98 %. |
| CAS number | 25971-63-5. |
| EINECS O ELINCS number | The product is a polymer, following the European Regulation; registration on the EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required. |
| Substances presenting a health hazard | The product is not composed by dangerous substances or dangerous preparations according to the Regulation (EC) No 1272/2008. |

4. First-aid measures

Route of exposure

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| Inhalation | In case of inhalation of gases during the product combustion, move patient into fresh air. Seek medical attention. |
| Skin contact | In case of burns with molten material, immediately immerse in cold water. Wash immediately with soap and abundant water. Seek medical attention. |
| Eye contact | In case of eye contact, wash immediately with abundant water. After the initial washing, remove the eventual contact lenses and go on washing affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention. |
| Ingestion | There is no risk that needed special first aids measures. |

5. Fire-fighting measures

Fire-class regulation

A: Solid materials fire, principally of organic nature, that burn with incandescence.

Technical measures

Stop the fire spreading. Call the fire brigade immediately. Evacuate non-essential personnel. Protective clothing, goggles and self-contained breathing equipment should be made available for firemen.

Extinguishing media

Suitable

Foam.
Water sprays (mist).
Chemical Powder ABC.

Not to be used

Chemical powder BC.
Carbon dioxide (CO₂).

Dangerous decomposition products

Toxic gas mixtures are released that mainly contain: Carbon Oxides (CO and CO₂), Aliphatic and aromatic hydrocarbons, Aldehydes, Acids and Phenol and its derivatives.

Special protective equipment

In case of fire-fighting or risk of exposure to vapors or fumes, wear suitable breathing equipment.

6. Accidental release measures

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| Personal precautions | Risk of slipping on smooth surfaces. |
| Environmental protection precautions | This product is not soluble in water. Because of its structure, the product should not be dangerous for aquatic life. Non biodegradable. Refer to a specialist for waste disposal in a safe manner in accordance with local or national regulations. |
| Cleaning methods | Clean and collect the released product by hand or using vacuum equipments. |

7. Handling and storage

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| Handling | The sheets may be heavy and difficult to handle. They must be carefully handled (do not drag) or using vacuum equipment. Avoid contact with hot or melted material. |
| Storage | The product should be stored in closed premises that guarantee normal environmental conditions. Store away heating and/or ignition sources. |
| Specific uses | No information available. |

8. Exposure controls / personal protection

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| Occupational exposure limit | Particules (respirable dust particules) E (2008): VLA-ED: 3 mg/m ³ . Particules (inhalable dust particules) E (2008): VLA-ED: 10 mg/m ³ . |
| Occupational exposure controls | |
| Personal protection | In case of Risk of over exposure to dust, vapor or fumes (during product processing), wear suitable respirator with filter (recommended filter type: P1, EN-143) |
| Hands protection | The sharpened edges may cause cuts. Wear industrial gloves, EN-388. |
| Eyes protection | Wear goggles with lateral protections, EN-166. |
| Body protection | Overall (EN-340). |
| Hygienic measures | During the operation process is forbidden eating, drinking and smoking. |
| Environmental exposure controls | Not regulated. |

9. Physical and chemical properties

General information.

Aspect

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| Physical state | Solid. |
| Color | Transparent or colored. |
| Odour | Faint. |

Important health, safety and environmental information

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| Ignition point (°C) | > 450. |
| Relative density | 1,20 |
| Solubility | Soluble in dichloromethane. |
| Solubility in water | Insoluble. |

Other information

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| Melting point (°C) | Near to 250. |
| Softening point (°C) | 150-180 |
| Auto-ignition temperature (°C): | >450 |
| Thermal decomposition (°C) | >300 |

10. Stability and reactivity

The product is stable under normal operating conditions (storage, handling and use). The thermal decomposition starts, approximately, at 300°C.

Conditions to avoid

Avoid proximity or contact with flames.
 Avoid overheating the product.
 Do not heat to temperatures exceeding the thermal decomposition.

Materials to avoid

Does not observe dangerous reactions.

Hazardous decomposition products

Toxic gas mixtures are released that mainly contain: Carbon Oxides (CO and CO₂), Aliphatic and aromatic hydrocarbons, Aldehydes, Acids and Phenol and its derivatives.

11. Toxicological information

This product has not been classified as a dangerous substance or preparation according to the Regulation (EC) No 1272/2008. Handling the product in the correct way, it does not have negative repercussions on health, according to the experiences and information which we have.

During the heating process may cause irritation of the skin, eyes and respiratory system.

12. Ecological information

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| Ecotoxicity | Because of its low solubility, the product should not be dangerous for aquatic life. |
| Mobility | Because of its physic-chemical properties, the product has low soil mobility. The product has a density up to 1 g/cm ³ , it sinks in water. Because of its low solubility, the product should not be dangerous for aquatic life. |
| Persistence and degradability | This product is slowly biodegradable. |
| Bioaccumulative potential | Potential bioaccumulation of the product in environment is slow. |

13. Disposal considerations

Where possible, it is preferred recycling than destruction or incineration. The product is good for recycling. The condition to recycle is the collection and reutilization of exactly the same material. The elimination must be according to local or national regulations.

Industrial waste number EC: 070213: plastics.

14. Transport information

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| Road (ADR) / Rail (RID) | Not restricted for transport. |
| UN number | Not applicable. |
| Marine (IMO) | Not restricted for transport. |
| Air Transport (ICAO/IATA) | Not restricted for transport. |

15. Regulatory information

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| Labelling and Classification CE | Not required. |
| Symbol(s) EC | Not classified according to Regulation (EC) No 1272/2008. |
| Wassergefährdungsklasse | NWG: non-hazardous to waters. |

16. Other information

All issues of this Material Safety Data Sheet have been modified and/or further details conform to the Regulation EU 1907/2006/EEC (REACH).

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) The totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.