Material Safety Data Sheet (MSDS)

1. Product Name: Solid Polycarbonate - 2 sides UV protected
Description: Solid Polycarbonate (PC) Thermoplastic sheet with two sides UV surface protection
Product Use: A sheet for flat, curved and thermoformed glazing applications.

2. Composition/information on ingredients
Main Polymer: Poly (bishphenol-a-carbonate, CAS 24936-68-3)

3. Hazard Identification
Potential Health Effects
Eyes: Product may cause irritation or injury due to mechanical action.
Skin: Sheet not likely to cause skin irritation.
Ingestion: Not acutely toxic.
Inhalation: Sheet inhalation unlikely due to physical form.

4. First Aid Measures
Eyes: No first aid required.
Skin: No first aid required.
Ingestion: Since this material is not expected to be a problem, no first aid procedures are required.

Melt processing health effects:
Processing fumes may cause irritation to the eyes and respiratory tract, and in cases of severe over exposure, nausea and headache.

Medical restrictions:
When heated to processing temperatures virtually all thermoplastics emit processing fumes. The exact composition and concentration of these processing fumes depends on the resin formulation including additives, the residence time in the processing equipment, variables such as venting parameters and processing temperature. Certain sensitive individuals and those with respiratory impairments, may experience some temporary irritation by exposure to specific components in the processing fumes.

5. Fire Fighting Measures
Fire fighting:
Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.
Extinguishing media
Water spray and foam. Water is the best extinguishing medium. Carbon dioxide and dry chemicals are not generally recommended because their lack of cooling capacity may permit re-ignition.

Hazardous combustion
Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide and traces of hydrocarbon fragments.

Conditions of flammability

6. Accidental Release Measures

General
Sweep or gather up material and place in proper container for disposal or recovery.

7. Handling and Storage

Handling practices
Following good standard industrial hygiene
Provide adequate ventilation.

Storage
Inert material under normal storage conditions.
No special precautions required.
Do not stack unsupported sheets or pallets too high.

8. Exposure Controls/personal protection

Personal protection
Eyes/face
Wear safety glasses with side shields when cutting the sheets.

Respiratory
Good industrial hygiene practice requires adequate ventilation of the workplace. When dust and powder from secondary operations, such as grinding, sanding or sawing are not adequately controlled, use respirator approved for protection for dust.

9. Physical and Chemical Properties

Physical State
Solid

Odour and appearance
Plastic sheet with slight odour

Boiling point
Not applicable

Melting point
This product does not exhibit a sharp melting point but softens gradually over a wide temperature range.

Vapour pressure (mmHg)
Negligible
**10. Stability and Reactivity**

- **Stability**: Stable under recommended conditions of storage and handling.
- **Reactivity**: Not reactive under recommended conditions of handling, storage, processing and use.
- **Hazardous**: Processing fumes evolved at recommended processing conditions may include trace levels of phenol, alkylphenols, and diarylcarbonates.

**11. Toxicological Information**

- **Acute oral**: Oral LD50 (Rat) > 5g/Kg estimated

**12. Ecological Information**

- **General**: Not expected to present any significant ecological problems.

**13. Disposal Information**

- **Recycling**: This product may be recycled either back into sheet or into suitable other applications.
- **Waste disposal**: This product is not regarded as hazardous waste. Dispose in accordance with local regulations.

**14. Transportation Information**

- **General**: This product is not subject to transport regulations.
15. Regulatory information

This product is not considered dangerous under EU directives 67/548/EEC and 88/379/EEC, as amended.

16. Other

This publication provides information and guidelines for safe handling and cutting of Polycarbonate sheet and is based on currently available experience and knowledge. It is not designed as a comprehensive product performance data sheet, nor as a guide to application possibilities of our materials. Users should follow all applicable local regulations governing Health and Safety at work, and are requested to pass this publication on to all relevant employees and customers.

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