



Jain (Americas) Inc.

## Material Safety Data Sheet

### 1. Product Identification and Company

Product Name: EX-CEL Polycarbonate Sheet

Manufacturer: Jain Irrigation Systems Limited

### 2. Composition/ Information on Ingredients

Chemical Family: Bisphenol A

Chemical Name: Polycarbonate Sheet

### 3. Physical and Chemical Properties

|                     |  |
|---------------------|--|
| Physical Form       | Solid Sheet                                    |
| Color               | Colorless or color depending on coloring agent |
| Odor                | Odorless                                       |
| Melting Range       | 220-230° C                                     |
| Density             | Approx. 1.2 g / cm <sup>3</sup> at 20° C       |
| Vapor Density       | Not Applicable (air = 1)                       |
| Viscosity           | Not Applicable                                 |
| Solubility in Water | None   |
| pH value            | Not Applicable                                 |
| Freezing Point      | Not Applicable                                 |
| Evaporation Rate    | None (Butyl Acetate = 1)                       |
| Vapor Pressure      | Not Applicable                                 |
| % Volatile          | None   |
| Flash Point         | FIT > 450° C                                   |
| Ignition Point      | SIT > 450° C                                   |
| Explosive Limits    | Not Applicable                                 |

*The Physical data presented above are typical values and should not be construed as a specification.*

### 4. Fire Hazard Data and Fighting Methods

|                         |   |
|-------------------------|---|
| Flammable Limits in Air |   |
| (LEL, %)                | Not Applicable  |
| (UEL, %)                | Not Applicable  |
| Extinguishing Media     | Water Spray, extinguishing powder, CO <sub>2</sub> , foam, dry powder |
|                         | Firemen must wear self-contained breathing apparatus.                 |

## 5. Accidental Release Measures

Take up mechanically

## 6. Handling and Storage

Usual procedures for handling and storage are to be observed. No special precautions required.

Evacuate machining shavings to prevent slipping or tripping hazard. During mechanical treatment, effective exhaust ventilation must be provided

## 7. Exposure Controls / Personal Protection

Respiratory protection not required. Wear safety glasses during machining. Hand gloves to be worn while handling hot material.

## 8. Stability and Reactivity

|                       |   |
|-----------------------|---|
| Thermal Decomposition | Decomposition begins at 380° C. Fumes evolved by overheating or burning may be injurious to health. |
|-----------------------|---|

|                         |  |
|-------------------------|--|
| Hazardous Decomposition | Caused by smoldering and incomplete toxic combustion. Fumes consisting of carbon monoxide and carbon dioxide may evolve. Formation of trace of aliphatic and aromatic hydrocarbons, aldehydes, acids, phenol and phenol derivatives may occur. |
|-------------------------|--|

|                    |                                 |
|--------------------|---------------------------------|
| Hazardous reaction | No hazardous reaction observed. |
|--------------------|---------------------------------|

## 9. Toxicological information

None

## 10. Ecological information

Water pollution class (WGK) : 0 – Generally non-hazardous to water.

WGK = Classification in accordance with the German Water resource act.

## 11. Disposal consideration

Can be recycled. May be discharged or incinerated together with household refuse observing local official rules and regulations.

## 12. Transport information

Safe during transport and keep in dry condition.

## 13. Regulatory information

No labeling is required in accordance with the EEC directives.

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