



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**PRODUCT NAME** PERSPEX SANITARYWARE

**Product Description** Opaque coloured sheet.  
A high molecular weight acrylic sheet.  
Polymethyl methacrylate : greater than 90%.

**Use of Substance / Preparation:** Acrylic sheet applications.

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**Emergency Phone No.**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification
No classifiable hazardous ingredient(s).				

For full text of R phrases see section 16.

### 3. HAZARDS IDENTIFICATION

**EC Classification** Not Classified as Dangerous for Supply/Use.

Low toxicity under normal conditions of handling and use. Thermal decomposition will evolve toxic, irritant and flammable vapours. Care should be taken during thermoforming to ensure that the product is not exposed to temperatures exceeding 200°C. Certain machining operations eg laser cutting, can give rise to toxic and corrosive fumes. Adequate ventilation must be used.

### 4. FIRST-AID MEASURES

**Inhalation** Remove patient from exposure, keep warm and at rest. Obtain medical attention if ill effects occur.

**Skin Contact** Wash skin with soap and water. If symptoms develop, obtain medical attention.

**Eye Contact** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion** Do not induce vomiting. Obtain medical attention if ill effects occur.

**Further Medical Treatment** Symptomatic treatment and supportive therapy as indicated.

### 5. FIRE-FIGHTING MEASURES

Combustion will evolve toxic, irritant and flammable vapours.

**Extinguishing Media** Water spray, foam, dry powder or CO<sub>2</sub>.

**Fire Fighting Protective Equipment** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

Offcuts, swarf or dust should be collected and disposed of in a safe way.

## 7. HANDLING AND STORAGE

### HANDLING

These sheets are heavy and unwieldy. They should be handled with care, particularly in windy locations or outdoors. If broken or chipped the resultant edges can be sharp and cause cuts to skin and eyes.

### Process Hazards

Take precautionary measures against static discharges.

All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. Under normal conditions where thermoforming temperatures will not exceed 200 Deg C thermal decomposition products will include methyl methacrylate. Certain machining operations eg laser cutting, can give rise to toxic and corrosive fumes. Adequate ventilation must be used.

### STORAGE

#### Storage Temperature

Keep away from heat. Store horizontal on pallet(s) provided.

#### Storage Life

below 40°C

#### Specific use

2 Year(s).

Sanitary applications e.g. shower trays.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. Local extraction close to the cutting head must be used when laser cutting. Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

The following information is given as general guidance.

### Respirators



NORMAL HANDLING Not normally required.

PROCESSING Dust: A suitable dust mask or dust respirator with filter type P may be appropriate. (EN141/EN143).

### Eye Protection



Wear eye/face protection. Safety spectacles/goggles/full face shield.

### Gloves



Sharp edges may cause cuts. Wear suitable gloves.

### Other

Wear suitable protective clothing. For information regarding process hazards refer to Section 7, Handling and Storage.

### Occupational Exposure Limits

The following values apply to substances which may be evolved during thermal processing.

Substance	CAS No.	LTEL ppm (8Hr TWA)	LTEL mg/m3 (8Hr TWA)	STEL ppm	STEL mg/m3	Notes
Methyl methacrylate	000080-62-6	50	208	100	416	COM

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid sheet
<b>Colour</b>	Coloured.
<b>Odour</b>	Odourless.
<b>pH (Value)</b>	Not applicable.
<b>Boiling Point (°C)</b>	Not applicable.
<b>Flash Point (°C)</b>	11.5 (MMA). Sheet has no flash point.
<b>Flammable Limits</b>	Not applicable.
<b>Auto Ignition Temperature (°C)</b>	421 (MMA).
<b>Explosive Properties</b>	Not explosive.
<b>Oxidising Properties</b>	Not oxidising.
<b>Vapour Pressure (Pascal)</b>	Not applicable.
<b>Density (g/ml)</b>	1.19
<b>Solubility (Water)</b>	Insoluble.
<b>Solubility (Other)</b>	Slightly soluble in: Most organic solvents. readily attacked by chlorinated hydrocarbons
<b>Partition Coefficient (n-Octanol/water)</b>	Not applicable.
<b>Freezing Point (°C)</b>	Not applicable.
<b>Softening Point (°C)</b>	> 85

## 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	None known.
<b>Hazardous Decomposition Product(s)</b>	Methyl methacrylate, carbon dioxide, carbon monoxide, traces of acrolein.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Unlikely route of exposure.
<b>Skin Contact</b>	No evidence of irritant effects from normal handling and use. Sharp edges may cause cuts.
<b>Eye Contact</b>	Swarf or dust may cause irritation. Sharp off-cuts may cause eye damage.
<b>Ingestion</b>	Unlikely to be hazardous if swallowed.
<b>Long Term Exposure</b>	No known hazards are associated with the use of this material.

## 12. ECOLOGICAL INFORMATION

This environmental hazard assessment is based on information available on similar products.

<b>Environmental Fate and Distribution</b>	High tonnage material produced in partially contained systems. Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product has low mobility in soil.
<b>Persistence and Degradation</b>	The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.
<b>Toxicity</b>	The product is predicted to have low toxicity to aquatic organisms.
<b>Effect on Effluent Treatment</b>	Unlikely to have an effect on effluent treatment systems. The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation. Incineration may be used to recover energy value. Bury on an authorised landfill site or incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.

Large quantities of waste may be recoverable. Contact supplier for specialised advice.

## 14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

## 15. REGULATORY INFORMATION

**EC Classification** Not Classified as Dangerous for Supply/Use.

## 16. OTHER INFORMATION

This Safety Data Sheet was prepared in accordance with Directive 2001/58/EC.

PERSPEX is a trade mark of Lucite International.

For other technical information, contact the address in Section 1.

Lucite International does not recommend this product for use in applications involving long-term contact with body tissues.

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### GLOSSARY

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

OES: Occupational Exposure Standard (UK HSE EH40)

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

IOELV: Indicative Occupational Exposure Limit Value

MEL: Maximum Exposure Limit (UK HSE EH40)

ILV: Indicative Limit Value

CHAN: Chemical Hazard Alert Notice

BOELV: Binding Occupational Exposure Limit Value

Bmgv: Biological Monitoring Guidance Value

Sen: Capable of causing respiratory sensitisation

Sk: Can be absorbed through skin.

COM: The company aims to control exposure in its workplace to this limit.