

# MSDS FOR DURAVISION FLAT MIRRORED SHEET

Part Code	Sheet Size	Sheet Thickness	Protective Paint	Lead %	Paint Dry Film	Aluminium Coating
<b>FLAT MIRRORED SHEET</b>						
24122	2440x1220mm	2mm	Light Grey	0%	20 - 40 micron	99.9% Pure
24120	2440x1220mm	3mm	Light Grey	0%	20 - 40 micron	99.9% Pure

## DuraVision™ Mirror Coating:

Aluminium coating by way of Vacuum Metalization Thermal Disposition method, protected by...

## DuraVision™ Mirror Backing Paint:

A premium quality Vacuum Metal Mirror Backing, designed to offer extended corrosion protection. The paint is totally heavy metal free, lead free. It has a low cure threshold offering a hard, scuff and moisture resistant finish.

## Acrylic Sheet:

Extruded acrylic sheet made to exacting standards. It offers excellent optical characteristics, thickness tolerances, light stability, and low internal stress levels for consistent performance.

## Adhesives

Many adhesives contain solvents that can attacked mirror backing paints. It is advised to test adhesives on small sample pieces of mirror, prior to main application and allowed to dry for a period of 6 days, then inspect both the mirrored layer and the acrylic for defects caused by the adhesives.

The following adhesives are some options available:

- Sellys liquid nails for MIRROR-METAL-GLASS
- Everflex "Mirror Mate"
- Simson Bostik "Mirrocol"

**PLEASE NOTE:** Mirrored acrylic sheet is not recommended for exterior use. If used in an exterior situation, the back and the edge of the mirrored sheet must be sealed to keep it free from moisture/condensation.

## MATERIAL HANDLING DATA SHEET FOR ACRYLIC SHEET

### Composition/Information on Ingredients

This material is classified as not hazardous under OSHA regulations.

Ingredients: acrylic copolymer

CAS Reg. No.: Trade Secret

Weight %: 100

NJTSR # 56705700001-6897 P

See Section, Exposure Controls/Personal Protection

### Hazards Identification

#### Emergency Overview

Colour: colourless or coloured

Appearance: solid in various forms

Odor: odorless

Under normal conditions of use, this product is not expected to create any unusual industrial hazards.

Primary Routes of Exposure: Eye contact (if exposed to chips)

Potential Health Effects Inhalation: No hazard expected in normal use.

Eye Contact: No hazard expected in normal use.

Material can cause the following: - mechanical irritation

Skin Contact: Material can cause the following: - cuts (when using cut sheets)

Ingestion: No hazard expected in normal use.

Potential Environmental Effects: See SECTION Ecological Information

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## MATERIAL HANDLING DATA SHEET FOR ACRYLIC SHEET

### First Aid Measures

#### First Aid Procedures

Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

Eye Contact: If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (possible during machining processes)

Skin Contact: No specific treatment is necessary since this material is not likely to be hazardous. Ingestion Ingestion is not considered a potential route of exposure.

### Fire-Fighting Measures

Flash Point > 250 °C (ASTM D1929-68)  
> 482 °F (ASTM D1929-68)

Autoignition Temperature > 400 °C (ASTM D1929-68)  
> 752 °F (ASTM D1929-68)

Lower Explosion Limit not applicable

Upper Explosion Limit not applicable

OSHA Flammable Classification none

Other Flammable Properties: Use water spray to cool containers exposed to fire.

Extinguishing Media: Use the following extinguishing media when fighting fires involving this material: water spray - foam - dry chemical - carbon dioxide

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Accidental Release Measures

#### Procedures

Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations. See Material Safety Data Sheet section, Exposure Controls/Personal Protection.

### Handling and Storage

Handling: During thermal processing and/or machining local exhaust ventilation at processing machines is necessary.

Storage: dry.

### Exposure Controls / Personal Protection

#### Exposure Limit Information

ACRYLIC COPOLYMER: Trade secret

No Occupational Exposure Values established (ACGIH, OSHA, Canada and Mexico).

Engineering Controls (Ventilation): If use operations generate dust, use adequate ventilation.

Respiratory Protecti: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection: Goggles for machining operations

Hand Protection: Protective gloves against mechanical risks

Other Protective Equipment: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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## MATERIAL HANDLING DATA SHEET FOR ACRYLIC SHEET

### Physical and Chemical Properties

Appearance:	colourless or coloured
Physical State:	solid in various forms
Odor:	odorless
Flash Point:	> 250 °C (ASTM D1929-68) > 482 °F (ASTM D1929-68)
pH-value:	not applicable

### Physical and Chemical Properties

Viscosity (dynamic)	not applicable
Specific gravity (water = 1)	1.19 g/cm at 20 °C / 68 °F
Vapor density (air = 1)	not applicable
Vapor pressure	not applicable
Softening Temperature	approx. 102 °C / 216 °F
Boiling Temperature	not applicable
Solubility in water	insoluble
n-Octanol/water partition coefficient	not applicable
Evaporation rate	not applicable
Odor threshold	not available
Further information	none
See Section, Fire Fighting Measures	

### Stability and Reactivity

Stability: This product is stable under normal storage conditions.

Conditions To Avoid: This material is considered stable.

Incompatibility With Other Materials: Oxidizing agents. No known incompatibility with other materials.

Hazardous Decomposition Products: In case of thermal decomposition, combustible vapours are formed, which are irritating to eyes and respiratory system, mainly consisting of: methyl methacrylate

Hazardous Polymerization: Product will not undergo polymerization.

### Toxicological Information

#### Further Information on Toxicology

The product has not been tested toxicologically. When handled and used as directed the product will not cause hazardous effects to health according to studies on similar products and practical experience.

### Ecological Information

#### Information on Elimination (Persistence and Degradability)

#### Ecotoxicological Effect

#### Further Information on Ecology

The product has not been tested eco toxicologically. On the basis of the products consistency as well as its low water solubility a bio availability is unlikely. Studies on products with similar composition confirm this assumption.

### Disposal Considerations

#### Procedures

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. CYRO encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

### Transport Information

#### Further information

Not subject to the regulations on dangerous goods.

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## MATERIAL HANDLING DATA SHEET FOR ACRYLIC SHEET

### Regulatory Information

EINECS (EU) listed or exempted  
 TSCA (USA) listed or exempted  
 DSL (CDN) listed or exempted

#### US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
None					

#### COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
NONE			

#### PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

NONE

#### US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
acrylic polymer / trade secret	NO	NO	NO	NO	NO

This product contains (a) chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

#### CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a non-controlled product.

WHMIS: NO

Component / CASRN	NPRI
NONE	

### Other information

	Health	Flammability	Physical Hazard
HMIS-Ratings	0	1	0
NFPA-Ratings	0	1	0
HMIS Hazard Ratings	NFPA Hazard Ratings		
4 = severe	4 = extreme		
3 = serious	3 = high		
2 = moderate	2 = moderate		
1 = slight	1 = slight		
0 = minimal	0 = insignificant		
N = no rating for powders	N = no rating for powders		
* = chronic health hazard			

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