



**MSDS:** 0004902  
**Date:** 08/19/2003  
**Supersedes:** 03/20/2002

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ACRYLITE® Acrylic Sheet  
**Synonyms:** For product grades: GP, FF, OP-2, OP-3, OP-4, P-95, P-99, AR, AS, GAR, OD, DP-9, FFX, FFV, FXS, FHG, PO-3, 249, GMS, ACRYLITE® Anti-Reflective Sheet, ACRYLITE® Radiant acrylic sheet  
**Chemical Family:** Acrylic Polymer  
**Molecular Formula:** Polymer  
**Molecular Weight:** Polymer

CYRO INDUSTRIES, 100 ENTERPRISE DRIVE, ROCKAWAY, NEW JERSEY 07866  
EMERGENCY PHONE: For product emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 1-703/527-3887.  
Product Inquiries: CYRO Industries Technical Center 1-203/795-6081

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### OSHA REGULATED COMPONENTS

Component / CAS No.	% (w/w)	OSHA (PEL):	ACGIH (TLV)	Carcinogen
Methyl methacrylate 80-62-6	< 1.5	100 ppm	100 ppm STEL 50 ppm	-
Ethyl acrylate 140-88-5	0 - 0.5	25 ppm (skin)	5 ppm 15 ppm STEL	IARC - 2B

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### APPEARANCE AND ODOR:

Color: tinted  
Appearance: sheet  
Odor: characteristic

##### STATEMENTS OF HAZARD:

NO WARNING  
STATEMENT

#### POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

Overexposure to this material is not likely to cause significant acute toxic effect.  
Refer to Section 11 for toxicology information on the regulated components of this product.

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## 4. FIRST AID MEASURES

**Ingestion:**

Material is not expected to be harmful by ingestion. No specific first aid measures are required.

**Skin Contact:**

Wash immediately with plenty of water and soap.

**Eye Contact:**

Rinse immediately with plenty of water for at least 15 minutes.

**Inhalation:**

Material is not expected to be harmful if inhaled. Remove to fresh air.

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## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemical.

**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

**Methods For Cleaning Up:**

Sweep up into containers for disposal. Flush spill area with water.

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## 7. HANDLING AND STORAGE

**HANDLING**

**Handling Statements:** None

**STORAGE**

None

**Storage Temperature:** Not applicable

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:**

Engineering controls are not usually necessary if good hygiene practices are followed. Cutting, grinding or sanding may generate small quantities of methyl methacrylate monomer and may create nuisance particulates and respirable dust particles. Respiratory protection appropriate for this dust may be required. Refer to the Regulated Component Section for potential hazardous components in the dust.

**Respiratory Protection:**

None recommended

**Eye Protection:**

Wear eye/face protection.

**Skin Protection:**

Avoid skin contact. Wear impermeable gloves.

**Additional Advice:**

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	tinted
<b>Appearance:</b>	sheet
<b>Odor:</b>	characteristic
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	1.19
<b>Vapor Density:</b>	Not applicable
<b>Percent Volatile (By Wt.):</b>	Negligible
<b>pH:</b>	Not applicable
<b>Saturation In Air (% By Vol.):</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility In Water:</b>	Negligible
<b>Volatile Organic Content:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Flammable Limits (% By Vol):</b>	Not applicable
<b>Autoignition Temperature:</b>	443 °C    830 °F
<b>Decomposition Temperature:</b>	>260 °C    500 °F
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Odor Threshold:</b>	See Section 2 for exposure limits.

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions To Avoid:</b>	None known
<b>Polymerization:</b>	Will not occur
<b>Conditions To Avoid:</b>	None known
<b>Materials To Avoid:</b>	Strong oxidizing agents.

<b>Hazardous Decomposition Products:</b>	carbon monoxide carbon dioxide methyl methacrylate methane ethane acetylene methyl isobutyrate methyl propionate water
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## 11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the regulated components of this product is as follows:

The acute oral (rat) LD50 value for methyl methacrylate monomer (MMA) is approximately 8,400 mg/kg. Liquid MMA may cause primary eye or skin irritation. Allergic skin reactions may occur by repeated direct contact. Vapor overexposure may cause irritation to the eyes or respiratory tract and may cause central nervous system depression. MMA was not carcinogenic to rats and mice when inhaled at concentrations up to 1000 ppm for 2 years in studies sponsored by the National Toxicology Program. These concentrations produced chronic nasal irritation resulting in inflammation of the nasal cavity and degeneration of the olfactory epithelium.

Ethyl acrylate has acute oral (rat) and dermal (rabbit) LD50 values of 800 mg/kg and greater than 1800 mg/kg, respectively. The acute 4-hour inhalation LC50 (rat) is 2180 ppm. Direct contact caused mild eye and skin irritation when tested in rabbits. In chronic gavage studies in mice and rats, gastrointestinal tumors were seen in both species. Ethyl acrylate is a chemical known to the State of California to cause cancer.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause cancer.

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## 12. ECOLOGICAL INFORMATION

Environmental exposure from substances of this preparation are limited due to the physical form of the product. This material is not classified as dangerous for the environment.

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## 13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the CYRO product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA `listed hazardous waste` or has any of the four RCRA `hazardous waste characteristics`. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA `listed hazardous waste`; information contained in Section 15 of this MSDS is not intended to indicate if the product is a `listed hazardous waste`. RCRA Hazardous Waste Characteristic. There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. CYRO encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. CYRO recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. CYRO has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

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## 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

### US DOT

Proper Shipping Name: Not applicable/Not regulated  
Hazardous Substances:  
Not applicable

### TRANSPORT CANADA

Proper Shipping Name: Not applicable/Not regulated

### ICAO / IATA

Proper Shipping Name: Not applicable/Not regulated  
Packing Instructions/Maximum Net Quantity Per Package:  
Passenger Aircraft: -  
Cargo Aircraft: -

### IMO

Proper Shipping Name: Not applicable/Not regulated

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## 15. REGULATORY INFORMATION

### INVENTORY INFORMATION

**United States (USA):** This product is considered an article and is therefore excluded by definition from the requirements of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

**Canada:** This product is an article and in accordance with Section 3 of the Canadian Environmental Protection Act (1999), its components are exempt from the reporting requirements for the Domestic Substances List.

**European Union (EU):** This product, because it is an article of commerce, is exempt from the provisions of Directive 67/548/EEC, amended 79/831/EEC.

### OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

<b>Component / CAS No.</b>	<b>TPQ(lbs)</b>	<b>RQ(lbs)</b>	<b>S313</b>	<b>TSCA 12B</b>
Methyl methacrylate 80-62-6	NONE	1000	Yes	No

**PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA**

- Not applicable
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**16. OTHER INFORMATION****NFPA Hazard Rating (National Fire Protection Association)**

Health: 0 - Materials that under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

Fire: 1 - Materials that must be preheated before ignition can occur.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

<b>Reasons For Issue:</b>	New Format
	Revised Section 1
	Revised Section 2
	Revised Section 11
	Revised Section 12
	Revised Section 15

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