

MSDS: 0004902 Date: 08/19/2003 Supercedes: 03/20/2002

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Synonyms:

Chemical Family: Molecular Formula: Molecular Weight: ACRYLITE® Acrylic Sheet

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 Acrylic Polymer Polymer 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. Methyl methacrylate 80-62-6	% (w/w) < 1.5	OSHA (PEL): 100 ppm	ACGIH (TLV) 100 ppm STEL 50 ppm	Carcinogen -
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:tintedAppearance:sheetOdor:characteristic

STATEMENTS OF HAZARD:

NO WARNING STATEMENT

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

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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.

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.

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.

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.

7. HANDLING AND STORAGE

HANDLING Handling Statements: None

STORAGE None

Storage Temperature: Not applicable

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: tinted **Appearance:** sheet Odor: characteristic **Boiling Point:** Not applicable **Melting Point:** Not applicable Vapor Pressure: **Specific Gravity:** 1.19 Vapor Density: Negligible Percent Volatile (By Wt.): pH: Saturation In Air (% By Vol.): **Evaporation Rate:** Solubility In Water: Negligible **Volatile Organic Content:** Flash Point: Flammable Limits (% By Vol): Autoignition Temperature: 443 °C >260 °C **Decomposition Temperature:** Partition coefficient (noctanol/water): **Odor Threshold:**

Not applicable 830 °F 500 °F Not applicable

See Section 2 for exposure limits.

10. STABILITY AND REACTIVITY

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

Hazardous Decomposition Products:	carbon monoxide carbon dioxide methyl methacrylate methane ethane acetylene methyl isobutyrate methyl propionate water

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.

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.

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 indicated 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.

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

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.

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

PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA

• Not applicable

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.

Reasons For Issue:

New Format Revised Section 1 Revised Section 2 Revised Section 11 Revised Section 12 Revised Section 15

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