

Material Safety Data Sheet

Status: 02/06/2006

Version: 1.



ACRYLITE® Acrylic Molding and Extrusion Compounds

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1. Chemical Product and Company Identification

ACRYLITE® Acrylic Molding and Extrusion Compounds

Synonyms: Polymethylmethacrylate; PMMA

Supplier:

CYRO INDUSTRIES
379 Interpace Parkway
Parsippany, NJ 07054-0677

Product Information Number 1-207-490-4242
24 Hour Emergency Number, CHEMTREC 1-800-424-9300

® is a registered trademark

Product Use: molding compound for injection molding and extrusion

2. Composition/Information on Ingredients

This material is classified as not hazardous under OSHA regulations.

<u>Ingredients</u>	<u>CAS Reg. No.</u>	<u>Weight %</u>
acrylic copolymer	trade secret	> 95

NJTSR # 56705700001-6736P

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color: colorless or colored
Appearance: pellets
Odor: odorless

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

Primary Routes of Exposure

Skin contact
Eye contact

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Potential Health Effects

Inhalation

Dust of material can cause the following:

- mechanical irritation

Eye Contact

No hazard expected in normal use.

Dust of material can cause the following:

- mechanical irritation

Skin Contact

No hazard expected in normal use.

Ingestion

No hazard expected in normal use.

Potential Environmental Effects

See SECTION 12, Ecological Information

4. 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.

Skin Contact

After contact with melted product cool quickly with cold water. See a physician.

Ingestion

Ingestion is not considered a potential route of exposure.

5. Fire-Fighting Measures

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

Ignition temperature	> 400 °C	(ASTM D1929-68)
	> 752 °F	(ASTM D1929-68)

Autoignition Temperature	not available
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Lower explosion limit	not applicable
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Upper explosion limit	not applicable
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OSHA Flammability Classification	none
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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:

foam - dry chemical - carbon dioxide - water spray

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Fire Fighting Procedures

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

6. 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 8, Exposure Controls/Personal Protection.

7. Handling and Storage

Handling

Avoid dust formation. During thermoplastic processing, vapors of the decomposition products referred to in section 10 are given off, which are technically unavoidable (Observe exposure threshold limit values). During thermal processing and/or machining extraction a cleaning aspirator at processing machines is necessary.

Storage

Store in a dry place.

8. 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 Protection

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

Use safety glasses (ANSI Z87.1 or approved equivalent).

Hand Protection

General use gloves are recommended to protect the skin from drying and irritation.

9. Physical and Chemical Properties

Appearance	colorless or colored
Physical state	pellets
Odor	odorless

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Flash point	> 250 °C (ASTM D1929-68) > 482 °F (ASTM D1929-68)
pH-value	not applicable
Viscosity (dynamic)	not applicable
Specific gravity (water = 1)	1.19 g/cm ³ at 20 °C / 68 °F
Vapor density (air = 1)	not applicable
Vapor pressure	not applicable
Softening Temperature	approx. 108 °C / 226 °F
Boiling Temperature	not available
Solubility in water	insoluble
Bulk density	approx. 700 kg/m ³ at 20 °C / 68 °F
Solubility (qualitative)	in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble
n-Octanol/water partition coefficient	not available
Evaporation rate	not available
Odor threshold	not available
Further information	Dust explosions are generally to be expected with dust-forming organic products.

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

This product is stable under normal storage conditions.

Conditions To Avoid

This material is considered stable.

Incompatibility With Other Materials

No known incompatibility with other materials.

Hazardous Decomposition Products

In case of thermal decomposition combustible, the eyes and respiratory system irritating vapors are formed, consisting mainly of: methyl methacrylate

Hazardous Polymerization

Product will not undergo polymerization.

11. 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.

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12. Ecological Information

Information on Elimination (Persistence and Degradability)

Ecotoxicological Effect

Further Information on Ecology

The product has not been tested ecotoxicologically.

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.

13. 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.

14. Transport Information

Further information

Not subject to the regulations on dangerous goods.

15. Regulatory Information

INVENTORY 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 [lbs] (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

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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

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

16. Other Information

	Health	Flammability	Physical Hazard
HMIS-Ratings	1	1	0
NFPA-Ratings	1	1	0

HMIS Hazard Ratings

4 = severe
3 = serious
2 = moderate
1 = slight
0 = minimal
N = no rating for powders
* = chronic health hazard

NFPA Hazard Ratings

4 = extreme
3 = high
2 = moderate
1 = slight
0 = insignificant
N = no rating for powders

This MSDS was prepared in accordance with ANSI Z400.1-1998.

Places marked by || have been amended from the last version.

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Date of printing : 05/26/2008