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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: Evonik CYRO LLC 299 Jefferson Road Parsippany, NJ 07054-0677 USA

973-929-8000 973-929-8040 (fax)

1-973-929-8060 (Product Information Number) 1-800-424-9300 (24 Hour Emergency Number, CHEMTREC)

® 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.

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

See Section 8, Exposure Controls/Personal Protection

# 3. Hazards Identification

#### **Emergency Overview**

Color:colourless or colouredAppearance:PelletsOdor:odourless

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

#### **Primary Routes of Exposure**

Skin contact Eye contact

#### **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

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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.

# Note to Physician

No hazards known. None known

# 5. Fire-Fighting Measures

Flash point	> 250 °C(ASTM D 1929-68) > 482 °F(ASTM D 1929-68)
Ignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
OSHA Flammability Classification	none
Other Flammable Properties	

Use water spray to cool containers exposed to fire.

# Unusual Hazards

In case of fire partly flammable, partly harmful vapours, which are irritating to the eyes and respiratory system, may be formed on thermal decomposition. -

## **Extinguishing Media**

Use the following extinguishing media when fighting fires involving this material:

foam - dry chemical - carbon dioxide - water spray

# **Fire Fighting Procedures**

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

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# 6. Accidental Release Measures

#### **Procedures**

Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations.

Avoid release to the environment.

See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection.

# 7. Handling and Storage

#### Handling

Avoid dust formation. During thermoplastic processing, vapours 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 local exhaust ventilation at processing machines is recommended.

# 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).

# DUST, PARTICULATES

Occupational Exposure Values	:		Remark(s):
ACGIH TLV-STEL			not established
OSHA PEL-TWA	50 mppcf		(total dust)
OSHA PEL-TWA	15 mppcf		(respirable dust)
OSHA PEL-STEL			not established
OEL-TWA (Alberta)		10 mg/m3	(total dust)
OEL-TWA (Alberta)		3 mg/m3	(respirable dust)
OEL-STEL (Alberta)			not established
OEL-TWA (British Columbia)		3 mg/m3	(respirable dust)
OEL-TWA (British Columbia)		10 mg/m3	(total dust)
OEL-STEL (British Columbia)			not established
OEL-TWA (Ontario)		10 mg/m3	(inhalable)
OEL-TWA (Ontario)		3 mg/m3	(respirable)
OEL-TWA (Quebec)		10 mg/m3	(total dust)
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)		10 mg/m3	(total dust)
OEL-STEL (Mexico)			not established

# **Engineering Controls (Ventilation)**

If use operations generate dust, use adequate ventilation.

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# **Respiratory Protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### **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.

# **Other Protective Equipment**

A safety shower and eye wash fountain should be readily available. 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.

# 9. Physical and Chemical Properties

Appearance	colourless or coloured	
Physical state	Pellets	
Odor	odourless	
Flash point	> 250 °C ( ASTM D 1929-68 ) > 482 °F ( ASTM D 1929-68 )	
pH-value	not applicable	
Viscosity (dynamic)	not applicable	
Viscosity (kinematic)	not applicable	
Specific gravity (water = 1)	ca. 1.19 g/cm3 at 20 °C / 68 °F	
Vapor density (air = 1)	not applicable	
Vapor pressure	not applicable	
Softening Temperature	ca. 108 °C / 226 °F	
	not applicable	
Solubility in water	insoluble	
Bulk density	no data available	
Solubility (quantitative)	no data available	
Solubility (qualitative)	in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble	
n-Octanol/water partition coefficient	not applicable	
Evaporation rate	not applicable	
Odor threshold	no data 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. No decomposition if stored and applied as directed. Depolymerization begins at 250 °C / 482 °F.

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# **Conditions To Avoid**

High temperature.

# Incompatibility With Other Materials

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**

No dangerous reactions known.

# **11. Toxicological Information**

# Acute Oral Toxicity

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# Irritant Effect on the Skin

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# Irritant Effect on the Eyes

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

#### Sensitization

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# Mutagenicity

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# Carcinogenicity

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# Reprotoxicity / teratogenicity

no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

# 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. The fine particles contained in the product may cause mechanical irritations of the skin, eyes and mucous membranes. Avoid skin and eye contact and inhalation of product dust/aerosols.

# 12. Ecological Information

Information on Elimination (Persistence and Degradability) Bioaccumulation

**Ecotoxicological Effect** 

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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 bioavailability is unlikely. Studies on products with similar composition confirm this assumption. Prevent substance from entering soil, natural bodies of water and sewer systems.

# 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

REACH (EU)	preregistered, registered 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
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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	California Proposition 65
				Cancer	Reproductive
acrylic copolymer / 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.

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# 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	0	1	0
NFPA-Ratings	0	1	0
	HMIS Hazard Ratings	NFPA H	Hazard Ratings
	4 = severe 3 = serious 2 = moderate 1 = slight 0 = minimal N = no rating for powders * = chronic health hazard	4 = exti 3 = higi 2 = moi 1 = sligi 0 = insi N = no	reme h derate ht gnificant rating for powders

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

Places marked by **II** have been amended from the last version.

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