

Material Safety Data Sheet

Status: 11/15/2011

Version: 2.0



ACRYLITE® FF Acrylic Sheet

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1. Chemical Product and Company Identification

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Supplier:

Evonik CYRO LLC
299 Jefferson Road
Parsippany, NJ 07054-0677
+1-973-929-8291

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

® is a registered trademark

Product Use: building glazing, light advertising, furniture, trade-fair booth design, displays, decoration, Industrial Use

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	100

NJTSR # 56705700001-6897 P

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color: colourless or coloured
Appearance: solid
Odor: odourless

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)

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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 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. (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.

5. Fire-Fighting Measures

Flash point > 250 °C (ASTM D 1929-68)

> 482 °F (ASTM D 1929-68)

Ignition temperature > 400 °C (ASTM D 1929-68)

> 752 °F (ASTM D 1929-68)

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:

water spray - foam - dry chemical - carbon dioxide

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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.

Should not be released into the environment. Sweep up unusable residues and dispose of.

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 necessary.

Storage

Storage: dry.

8. Exposure Controls/Personal Protection

Exposure Limit Information

ACRYLIC COPOLYMER

trade secret

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

DICHLOROMETHANE

(CAS Number 75-09-2)

Carcinogen designation(s) USA: EPA-B2; IARC-2B; NIOSH-Ca; NTP-R; OSHA-Ca; TLV-A3

Occupational Exposure Values :

Remark(s):

ACGIH TLV-TWA	50 ppm	174 mg/m3	
ACGIH TLV-STEL			not established
OSHA PEL-TWA	25 ppm		
OSHA PEL-STEL	125 ppm		
OEL-TWA (Alberta)	50 ppm	174 mg/m3	
OEL-STEL (Alberta)			not established
OEL-TWA (British Columbia)	25 ppm		IARC Carcinogen rating: 2B (Possible human carcinogen)
OEL-STEL (British Columbia)			not established
OEL-TWA (Ontario)	50 ppm	175 mg/m3	
OEL-STEL (Ontario)			not established

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OEL-TWA (Quebec)	50 ppm	174 mg/m ³	C2 - carcinogenic effect suspected in humans
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)	100 ppm	330 mg/m ³	Carcinogen category C3: (carcinogenic effect detected in animals. Results not necessarily applicable to humans)
OEL-STEL (Mexico)	500 ppm	1,740 mg/m ³	Carcinogen category C3: (carcinogenic effect detected in animals. Results not necessarily applicable to humans)

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

goggles for machining operations

Hand Protection

protective gloves against mechanical risks

Other Protective Equipment

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

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.

9. Physical and Chemical Properties

Appearance	colourless or coloured
Physical state	solid
Odor	odourless
Flash point	> 250 °C (ASTM D 1929-68) > 482 °F (ASTM D 1929-68)
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. 102 °C / 216 °F
Boiling Temperature	not applicable
Solubility in water	insoluble
Bulk density	not available

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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	not available
Further information	none

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

This material is considered stable under specified conditions of storage, shipment and/or use.

Conditions To Avoid

High temperature. Depolymerization begins at 250 °C / 482 °F.

Incompatibility With Other Materials

None reasonably foreseeable.

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 hazardous 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

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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

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. Do not allow to enter soil, waterways or waste water.

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

US DOT Hazard Classification

Not subject to the regulations on dangerous goods.

Canadian TDG Classification

Refer to the classification US DOT

Shipment by sea IMDG/GGVSee

Not a dangerous good within the meaning of transportation regulations.

Air transport ICAO/IATA

Not a dangerous good within the meaning of transportation regulations.

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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
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	

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16. Other Information

	Health	Flammability	Physical Hazard
HMIS-Ratings	0	1	0
NFPA-Ratings	0	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 : 05/17/2013