

SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

COMPANY/UNDERTAKING

Formula 1 ACRYLIC RESIN - POLY(EMA) BASED FMP-2, FMP-5, FMP-25, FMP-50 &

Product Name FMP-100 FXP-2, FXP-5, FXP-50 & FXP-100

Polymer based on Ethyl methacrylate.

Product Description

This data sheet covers the following grades: Formula-1 Mounting Powder

CAS No. 9003-42-3

Identified use(s) Manufacture of Metallurgical Mounting Systems

Uses advised against None known.

Manufacturer Mark V Laboratory Date: Jan 1 2018

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East Granby, CT 06026 800-243-9776 markvlmet@markvlab.com

Emergency Phone No. 1-800-424-9300 (Transport Emergency)

1-877-886-2143 (Medical Emergency)

HAZARDS IDENTIFICATION

Hazard classification Combustible dust

Label elements

Signal word Warning

Hazard statement(s) May form combustible dust concentrations in air.

Other hazards Low toxicity under normal conditions of handling and use.

COMPOSITION/INFORMA ION ON INGREDIENTS

Chemical identity of the substance Poly(Ethyl methacrylate)

CAS No. 9003-42-3

FIRST AID MEASURES

Description of first aid measures

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Skin Contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical attention.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion Do not induce vomiting. Rinse mouth. Obtain medical attention if ill effects occur.



Most important symptoms and effects, both acute and delayed Not applicable.

Indication of any immediate medical attention and special treatment needed None necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, foam, dry powder or CO₂.

Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance Combustible but not readily ignited. By analogy with similar materials, the product may

or mixture decompose if heated to temperatures above 392°F (200°C). Combustion or thermal

decomposition will evolve toxic, irritant and flammable vapors.

Special protective equipment and A self contained breathing apparatus and suitable protective clothing should be worn in fire precautions for fire fighters conditions.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and Caution - spillages may be slippery. Sweep up and shovel into waste drums or plastic bags. cleaning up Wash the spillage area with water.

HANDLING AND STORAGE

HANDLING Product as supplied: Avoid contact with eyes. Avoid prolonged skin contact. Unlikely to

represent a dust hazard under normal handling conditions.

Process Hazards The product may be suitable for a wide range of industrial applications and therefore it is

impossible to make detailed recommendations regarding all process hazards. If the product is to be used in applications for which the hazards are not fully understood it is

recommended to consult the supplier before use.

STORAGE Acrylic polymers are supplied in either bags or bulk containers. Keep containers in a

clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage Temperature Ambient.

Incompatible materials: None known.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Substance	CAS No.	OSHA PEL	ACGIH	ACGIH	Company	Company
		TWA	TWA	STEL	Std.	Std.
					TWA	STEL
Particulates (Total dust)		15 mg/m³	Not			
(Respirable dust)		5 mg/m³	established.			
The following values apply to						
substances which may be evolved						
during thermal processing.						

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Ethyl methacrylate	97-63-2	100 ppm	50 ppm	100 ppm	50 ppm	100 ppm	
		410 mg/m ³	(205	(410 mg/m³)			
			mg/m³)	(SEN;A4)			

Appropriate engineering controls Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



Wear eye/face protection.

Safety spectacles/goggles/full face shield.

Skin protection



Not normally required.

Respiratory protection



pH (Value)

A suitable dust mask or dust respirator with filter type P may be appropriate. In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

Not applicable.

PHYSICAL AND CHEMICAL PROPERTIES

Form Beads.
Color. White.

Odour Typically methacrylate.

Boiling Point (°C)

Flash point (°C)

Relative Evaporation Rate (Ether = 1)

Flammable Limits

Vapour pressure (Pascal)

Vapor Density (Air=1)

Not applicable.

Not applicable.

Not applicable.

Specific Gravity 1.18

Solubility (Water)

Solubility (Other)

Partition coefficient (n-Octanol/water)

Viscosity (mPa. s)

Explosive Properties

Not applicable.

Not applicable.

Not applicable.

Not applicable.



10. STABILITY AND REACTIVITY

Reactivity Non-reactive material.

Chemical Stability Stable under normal conditions.

Hazardous Reactions None known.

Conditions to avoid Keep away from heat.

Materials to avoid None known.

Hazardous Decomposition Product(s) Ethyl methacrylate, Carbon dioxide, Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion Low oral toxicity.

Inhalation Unlikely to be hazardous by inhalation.

Skin Contact Unlikely to cause skin irritation.

Contains greater than 0.1% residual (Ethyl methacrylate). During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix.

Under these conditions, they may produce an allergic reaction in persons already

sensitised.

Eye Contact Dust may cause irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity The product is predicted to have low toxicity to aquatic organisms.

Persistence and degradability The product is non-biodegradable in soil. There is no evidence of degradation in soil

and water.

Bioaccumulative potential The product has low potential for bioaccumulation.

Mobility The product is predicted to have low mobility in soil.

Other adverse effects None known.

DISPOSAL CONSIDERATIONS

The waste is considered to be non hazardous. Clean scrap may be reprocessed. Incineration may be used to recover energy value.

May be disposed of by landfill in accordance with local regulations. Certain packages are returnable. Please consult your local office for further details. Ensure that all packaging is disposed of safely.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF Not Classified as Dangerous for Transport. TRANSPORTATION)

UN No. Not applicable.

Proper Shipping Name Not applicable.

Class Not applicable.



Packing group Not applicable.

Environmental hazards Not applicable. Special precautions for

user Not applicable.

Transport in bulk according to Annex II of Not applicable.

MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

US Federal Regulations

SARA 302 - Extremely Hazardous Not applicable.

Substances

SARA 313 - Toxic Chemicals NONE

US State Regulations

Canadian Regulations

California SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH

DEFECTS OR OTHER REPRODUCTIVE HARM None known. SUBSTANCES

KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER None known.

WHMIS Classification Not classified.

16. OTHER INFORMATION

The following sections contain revisions or

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

new statements:

Date of preparation: 28 -May- 2014

Inventory Status

European Union To the best of our knowledge all chemicals in this product comply with REACH

regulations.

United States (TSCA)

Canada (DSL/NDSL)

Japan (ENCS)

Philippines (PICCS)

Australia (AICS)

South Korea (KECI)

Listed in TSCA

Listed in DSL

Listed in ENCS

Listed in PICCS

Listed in AICS

Listed in KECI

Listed in IECSC

LEGEND

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

LTEL: Long Term Exposure Limit STEL: Short Term Exposure Limit TWA: Time Weighted Average PEL: Permissible Exposure Levels

OSHA: Occupational Safety and Health Administration SARA: Superfund Amendments and Reauthorisation Act WHMIS: Worker Hazardous Materials Information System



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