

Date of Prep: 12/3/2002

Revision: 3

Rev. Date: 01/01/2010

Conforms to W.H.I.M.S.

UCAN Fastening Products
155 Champagne Drive
Toronto, Ontario, M3J 2C6
www.ucanfast.comTelephone: 416-631-9400
Fax: 416-631-9426
Canada: 800-268-1248
24 hr. Emergency: 800-424-9300**Product Identification**

Product Class: Epoxyacrylate preparation
Product Name: FLO ROK, FR5 MAX
Part#: FR5-28MAX / FR5-12MAX / FR5-5MAX
Description: Chemical anchoring packaged in a dual component side-by-side plastic tube filled with resin and hardener. Part A (resin) is in the large tube and part B (hardener) is in the small tube.

Hazardous Identification Index:
Health : 2
Reactivity: 1

Flammability: 3
Personal Protective Equip.: B

Hazardous Ingredients

Ingredients:	CAS Number:	Exposure limits:
<u>Part A</u>		
Epoxyacrylate resin	(proprietary)	None established
Styrene >10 %	100-42-5	PEL = 100 ppm PEL-C = 200 ppm TLV = 50 ppm STEL = 100 ppm
Amorphous Silica	67762-90-7	PEL = 2 mg/m ³
<u>Part B</u>		
Benzoyl peroxide	94-36-0	PEL = 5 mg/m ³ TLV = 5 mg/m ³
Diisobutyl Phthalate	84-69-5	None established

PEL = OSHA permissible exposure limit. TLV = ACGIH threshold limit value.

This is an 8 hour time weighted average unless otherwise indicated by "C" (ceiling) or "STEL"

Date of Prep: 12/3/2002

Revision: 3

Rev. Date: 01/01/210

Physical Data

Appearance and Odor: Part A - gray paste, styrene odor
Part B - white emulsion with slight odor

Boiling Point: Cured material decomposes above 200° C

Vapor Pressure: 5 mm Hg @ 68° F (styrene)

Vapor Density: 3.6 (styrene)

Evaporation rate: Not determined

Solubility in water: Not soluble

Specific Density: 1.7

PH: not applicable

Viscosity: 1,000 – 2,000 poises (thixotropic)

Fire and Explosion Hazard Data

Flammability Classification: Flammable Liquid

Flash Point: 33° C

Extinguishing media: Carbon dioxide, foam, water

Special fire fighting procedures: Use self-contained breathing apparatus.

Unusual fire and explosion hazards: Isolate from heat, electrical equip. sparks, and open flame.
Decomposition and combustion products may be toxic.

Reactivity Data

Stability: Stable at temperatures below 50° C

Incompatibility: Strong acids, peroxides and other oxidizing agents.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, gases

Hazardous polymerization: Will not occur

Conditions to avoid: Styrene will polymerize at elevated temperatures.
Benzoyl peroxide will decompose at temperatures >50° C

Health Hazard Data

Primary routes of exposure: Dermal, inhalation

Signs and symptoms of exposure: Causes eye burns. Skin irritant. Can have a narcotic effect if inhaled. Can cause allergic skin and respiratory condition. "Styrene sickness" consisting of drowsiness, nausea, headache, fatigue, and dizziness has been mentioned in workers exposed at 200-700 ppm.

Medical conditions aggravated by exposure: Skin and eye conditions.

Date of Prep: 12/3/2002

Revision: 3

Rev. Date: 01/01/2010

Emergency and First Aid Procedures

Eyes:	Immediately flush with plenty of water for at least 15 minutes. Call a physician.
Skin:	Wash with soap and water. Remove contaminated clothing and launder before reuse.
Inhalation:	Move victim to fresh air. Give oxygen and/or artificial respiration if needed. Call a physician
Ingestion:	Give plenty of water to drink. Do not induce vomiting. Call a physician. <u>Never</u> give anything by mouth to an unconscious person.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

Safe Handling and Personal Protective Equipment

Respiratory Protection:	Use NIOSH approved organic vapor respirator when vapor concentrations exceed recommended exposure limits.
Ventilation:	General (natural or mechanically induced) fresh air movements that maintain vapor concentrations below recommended exposure limits.
Eye Protection:	Safety glasses (Side shields recommended).
Protective Gloves:	Impermeable (Neoprene or rubber).

Precautions For Safe Handling and Use

Precautionary Labeling:	Warning! Flammable. Causes eye burns and skin irritation. Can have anesthetic effect if inhaled. Can cause allergic skin and respiratory reactions. Keep away from heat, sparks and open flame. Avoid contact with eyes, skin and clothing. Avoid breathing in vapor. Avoid prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling.
Handling and Storing:	Keep in a cool dry place out of direct rays of sun. do not store below 5° C or above 25° C. Keep away from ignition sources such as excess heat, sparks, and open flame.
Spill Procedures:	Remove all sources of ignition. Cover with absorbent material and place in salvage container for proper disposal.

Regulatory Information

Waste Disposal Methods:	Consult with local regulatory agencies or corporate personnel for disposal methods that comply with local, state and federal health and environmental regulations.
-------------------------	--

Date of Prep: 12/3/2002

Revision: 3

Rev. Date: 01/01/2010

Transport Information*CANADA – TDG*

Shipping Name : Polyester resin kit
Description : Flammable
Product Identification Number : UN3269
Classification : 3.3
Packaging Group : III
Label(s) : 3 – Flammable liquid

Quantity Limitations:

Maximum net quantity per package
Passenger Aircraft, Road/Railway Vehicles : 5.0 kg

Cargo Aircraft Only : 5.0 kg

User Notification

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.