

MATERIAL SAFETY DATA SHEET

Date Prepared: 8/11/05
100812

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MSDS Number: 110001

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Fast Set Adhesive
Product Numbers: 100812
Product Use: adhesive

Company

Fibre Glass-Evercoat
a Division of Illinois Tool Works Inc.
6600 Cornell Road
Cincinnati, Ohio USA
Phone: 513-489-7600

Emergency Telephone Numbers:

CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Methyl Methacrylate Monomer	80-62-6	201297-1	40 – 60
Chlorosulfonated polyethylene	86037-39-6	N/L	20 – 30
p(BD/MMA/STY)	25053-09-2	N/L	10 – 20
Methacrylic acid	79-41-4	201-204-4	1 – 10
Carbon Tetrachloride	56-23-5	200-262-8	0 – 1

SECTION 3. HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED.

Potential Health Effects

Acute Effects (Short Term):

Eye: May cause eye irritation. May cause corneal damage.

Skin: May cause skin irritation. May be absorbed through the skin.

Swallowing: May irritate respiratory tract. May cause dizziness, headache, anaesthetic effects, unconsciousness.

Inhalation: Causes irritation, a burning sensation of the mouth and throat, gastrointestinal tract and abdominal pain.

Chronic Effects of Overexposure (Long Term): Prolonged overexposure may lead to kidney, lung and liver damage. May cause dermatitis and/or numbness of skin. Repeated or prolonged inhalation may cause asthma. May affect the central and/or peripheral nervous system.

Cancer Information: Not likely to cause cancer.

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Other Health Effects: MMA: developmental toxicity observed in animal tests.

Primary Route(s) of Entry: skin contact, skin absorption, eye contact, inhalation.

SECTION 4. FIRST AID MEASURES

Eyes: Flush eyes with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

Skin: Immediately remove contaminated clothing. Flush skin with water. Wash thoroughly with warm water and soap. Consult a physician.

Swallowing: DO NOT induce vomiting. Get medical attention.

Inhalation: Remove patient to fresh air. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 50 °F

Explosive Limit: Lower: 2.1% Upper: 12.5%

Autoignition Temperature: N/A

OSHA Flammability Class: Flammable Liquid IC

Hazardous Products of Combustion: carbon monoxide, carbon dioxide, smoke

Fire and Explosion Hazards: Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back.

Extinguishing Media: carbon dioxide, dry chemical, foam

Fire Fighting Instructions: Keep personnel removed and upwind from fire. Wear self-contained breathing apparatus and full protective equipment. Cool container with water spray. Fight fire from a distance as the heat may rupture the containers.

NFPA Rating: Health -2, Flammability -3, Reactivity -2

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbent and dispose of properly.

SECTION 7. HANDLING AND STORAGE

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Handling: Do not use in presence of open flame, sparks or ignition sources. Keep away from heat. Avoid breathing vapors and spray mists. Avoid contact with skin and eyes. After handling always wash hands thoroughly with soap and water.

Storage: Keep in a cool, well-ventilated place. Keep away from heat, open flames, sparks and all other sources of ignition. Do not place in hot water or near radiator, stove or other sources of heat. Do not puncture, incinerate, store the container at temperature over 120° F or in direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are recommended.

Skin Protection: Wear impervious butyl rubber clothing as appropriate to prevent contact

Respiratory Protection: Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits.
Explosion-proof ventilation system is acceptable.

Exposure Guidelines:

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Carbon tetrachloride	56-23-5	10 ppm	5 ppm
Methacrylic acid	79-41-4	20 ppm	20 ppm
Methyl methacrylate monomer	80-62-6	100 ppm	50 ppm

Mppcf- millions of particles per cubic foot of air

N/E-Not Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	213 °F	Vapor Density:	Heavier than air
Specific Gravity / Density:	1.03 / 8.59 lbs/gal	Percent Volatiles by weight:	N/A
Evaporation Rate:	Greater than butyl acetate	Physical State:	Paste
Melting Point:	N/A	pH:	3.0 – 3.5
Odor:	Varied fragrant odor	Solubility:	N/A

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Vapor Pressure:	28 mm Hg @ 68°F	Appearance:	Off white paste
Octanol/Water Partition Coefficient:	N/A	VOC as applied with both adhesive and activator:	.42 lb/gal or 50g/L

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: May occur under excessive heat, storage in the absence of inhibitor or addition of catalyst.

Hazardous Decomposition: carbon monoxide, carbon dioxide, smoke

Chemical Stability: stable under normal handling conditions

Incompatibility: incompatible with strong oxidizing agents and reducing agents, acids and bases. Can soften paint and rubber.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

Ingredient	CAS #	LD₅₀ Oral-Rat	LC₅₀ Inhalation-Rat
Carbon tetrachloride	56-23-5	2350 mg/kg	8000 ppm
Methacrylic acid	79-41-4	1060 mg/kg	>1300 ppm
Methyl methacrylate monomer	80-62-6	7872 mg/kg	7093 ppm

Carcinogenicity: See Section 3

Mutagenicity: N/A

Teratogenicity: N/A

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: MMA is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

SECTION 13. DISPOSAL CONSIDERATION

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RCRA Hazardous Waste: This material as supplied, if discarded would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state and local regulations.

RCRA Hazard Class: This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components) or method of shipment.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (USA) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

<u>Component</u>	<u>RQ (lbs.)</u>
Carbon tetrachloride	10
Methyl Methacrylate Monomer	1000

SARA Title III: Section 302- Extremely Hazardous Substances
none

SARA Title III: Section 313- Toxic Chemical List

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Carbon tetrachloride	56-23-5	< 1
Methyl Methacrylate Monomer	80-62-6	40 – 60

EPA Hazardous Air Pollutants (HAPS) 40 CFR 63

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Carbon tetrachloride	56-23-5	< 1
Methyl Methacrylate Monomer	80-62-6	40 – 60

International Regulations

EINECS (Europe) N/A

DSL (Canada) The intentional ingredients of this product are listed.

WHMIS Classification

Health Hazard: D2B (other toxic effects)

Physical Hazard: B2 (Flammable)

State and Local Regulations

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California Proposition 65:

This product contains the following chemical(s) known to the state of California to cause cancer. CARBON TETRACHLORIDE

This product contains the following chemical(s) known to the state of California to cause birth defects or other reproductive harm. NONE

SECTION 16. OTHER INFORMATION

HMIS Rating: Health -2, Flammability -3, Reactivity - 2
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.