

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 1
MSDS Number: 130001

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Liquid Activator
Product Numbers: 100636
Product Use: Polymerization initiator

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

Packaged By:

Rocket Plastics Co.
P.O. Box 429514
Montgomery, Ohio USA 45242

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient(s)</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>% (by weight)</u>
Methyl Ethyl Ketone Peroxide	1338-23-4	215-661-2	30 – 35
Dimethyl Phthalate	131-11-3	205-011-6	35 – 60
Phlegmatizer	Proprietary	Proprietary	5 – 30
Hydrogen Peroxide	7722-84-1	231-765-0	1
Water	7732-18-5	231-791-2	0 – 2
Methyl Ethyl Ketone	78-93-3	201-159-0	1

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.

Potential Health Effects

Acute Effects (Short Term):

Eye: Contact with liquid or vapor may result in burns and possibly permanent damage. Symptoms may include burning, redness, tearing, and blurred vision.

Skin: May cause severe skin irritation with blistering. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 2
MSDS Number: 130001

Swallowing: Ingestion of this material may cause severe gastrointestinal irritation, or burns of the mouth, throat, esophagus and stomach, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may cause severe lung injury.

Inhalation: Excessive inhalation of vapors may cause severe nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Chronic Effects of Overexposure (Long Term):

Product: Prolonged and /or repeated inhalation is expected to be severely irritating to the respiratory system.

Methyl Ethyl Ketone: Animal tests show that this substance possibly causes toxic effects upon human reproduction.

Cancer Information: This product does not contain any substance, which is listed as a carcinogen by NTP, IARC or OSHA.

Other Health Effects: NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Primary Route(s) of Entry: Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

SECTION 4. FIRST AID MEASURES

- Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention. DO NOT let victim rub eyes. Do not attempt to use any neutralization chemicals.
- Skin:** Immediately remove contaminated clothing. Wash exposed area with soap and water. Seek medical attention. Launder clothing before reuse.
- Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended.
- Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: >200 °F (93 °C)

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 3
MSDS Number: 130001

Explosive Limit: Lower: Not Established Upper: Not Established
Autoignition Temperature: Not Determined
OSHA Flammability Class: Combustible Liquid – Class IIIA
Hazardous Products of Combustion: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone and various hydrocarbons.
Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.
Extinguishing Media: Regular foam, carbon dioxide, dry chemical.
Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 3, Flammability - 2, 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 absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapors or spray mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 80°F (27°C). To prevent possible self-accelerating decomposition, temperatures in the storage facility must not exceed 100°F (38°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 4
MSDS Number: 130001

Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

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
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm
Dimethyl Phthalate	131-11-3	5 mg/m ³	5 mg/m ³
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm
Methyl Ethyl Ketone Peroxide	1338-23-4	N/E	0.2 ppm STEL C

N/E-Not Established C-Ceiling

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not Established	Vapor Density:	>1
Specific Gravity	1.1	Percent Volatiles by weight:	Not Available
Evaporation Rate:	Slower than ethyl ether.	Physical State:	Liquid
Melting Point:	Not Established	pH:	Not Applicable
Odor:	Slight odor	Solubility:	Slightly soluble in water
Vapor Pressure:	Not Established	Appearance:	Clear liquid
Octanol/Water Partition Coefficient:	Unknown	VOC (as packaged-less exempts and water):	0.326 lbs/gal or 39 g/L

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Product may undergo hazardous polymerization

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 5
MSDS Number: 130001

if exposed to temperatures above 100°F (38°C).

Hazardous Decomposition: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, oxygen, ethane, methane, and various hydrocarbons.

Chemical Stability: Stable under normal handling conditions.

Incompatibility: Avoid contact in uncontrolled conditions with: organic materials, inorganic acids, strong oxidizing agents, accelerators, reducing materials and strong bases.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

Ingredient	CAS #	LD ₅₀ Oral-Rat	LC ₅₀ Inhalation-Rat
Methyl Ethyl Ketone Peroxide	1338-23-4	484 mg/kg	200 ppm/4hr
Dimethyl Phthalate	131-11-3	6800 mg/kg	Cat 9300 mg/m ³ /6.5 hr
Proprietary Phlegmatizer	proprietary	>3200 mg/kg	Human 50 mg/kg eye, nose, and pulmonary effects
Methyl Ethyl Ketone	78-93-3	2,737 mg/kg	23,500 mg/m ³ /8 hr

Carcinogenicity: See Cancer Information, Section 3.

Mutagenicity: No significant evidence found.

Teratogenicity: Development inhalation toxicity studies with methyl ethyl ketone in rats and mice resulted in fetal toxicity at maternally toxic doses.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Methyl Ethyl Ketone Peroxide EC (Guppy), 44.2 mg/L/96 hr; EC₅₀ (alga) 42,700 µg/L/96 hr.

SECTION 13. DISPOSAL CONSIDERATION

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.

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)

MATERIAL SAFETY DATA SHEET

Date Revised: 01/07/2010
Liquid Activator

Page: 6
MSDS Number: 130001

<u>Component</u>	<u>RQ (lbs.)</u>
Methyl Ethyl Ketone Peroxide	10
Methyl Ethyl Ketone	5000

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>
Methyl Ethyl Ketone	78-93-3	0- 2
Dimethyl Phthalate	131-11-3	35 - 60

International Regulations

EINECS (Europe) The intentional ingredients of this product are listed.

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

WHMIS Classification

Health Hazard: C, D2A, E, F (Oxidizer, Toxic Effects, Corrosive, Dangerously Reactive Materials)

Physical Hazard: B3 (Combustible)

State and Local Regulations

California Proposition 65:

This product contains the following chemical(s) known to the state of California to cause cancer. NONE

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

SECTION 16. OTHER INFORMATION

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

Other Precautions for Use: DO NOT return unused material to the original container. DO NOT contaminate product with foreign materials, it may cause hazardous decomposition. 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.