MATERIAL SAFETY DATA

Chemtrec 24-Hour Emergency Telephone
Domestic North America (800) 424-9300
International (800) 527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communications)

1. Product and Supplier Identification

Product Name: **MEKP**

Product Number: **0811, 0812, 0814, 08105, 081025**

Date of Prep: **11-3-2010**

Product Type: **Organic Peroxide**

Supplier: **Fiberlay Inc.**
24 S. Idaho S.
Seattle, Wa 98134
(206)782-0660

2. Composition/Information On Ingredients

CAS No.	Chemical Name	% (by weight)
1338-23-4	Methyl ethyl ketone peroxides	36.0-40.0
	(% Active Oxygen)	≤ 9.0%
131-11-3	Dimethyl phthalate	32.0 – 36.0
	Proprietary safety diluent	26.0 – 30.0

3. Hazards Identification

Emergency Overview:

WARNING!

- May be harmful or fatal if swallowed
- May cause allergic skin reaction
- May be irritating or corrosive to the skin and/or eyes

Specific Physical Form: Liquid

Color: Colorless to light yellow

Physical State: Liquid

Potential Health Effects:

- **Eye: Acute effects** – may cause chemical burns of eye

- **Skin: Acute effects –**
  - ✓ Absorption may cause eye and skin irritation
  - ✓ Contact may cause allergic skin reaction

- **Ingestion: Acute effects –** Harmful or fatal if swallowed

- **Inhalation: Acute effects –** May be harmful by inhalation

Possible Environmental Effects:

- This product is stable in water, and can be mechanically separated from water.
- The water may be suitable for disposal in a biological waste water treatment plant.

4. First Aid Measures

Eyes:

- Immediately flush eyes with water and continue washing for at least 15 minutes
- Obtain medical attention immediately
- May cause blindness

Skin:

- Remove contaminated clothing
- Wash skin with soap and water
- If irritation persists or if contact has been prolonged, obtain medical attention

Swallowing:

- Obtain medical attention
- If fully conscious, rinse mouth with water; drink water in small sips (diluting effect)
- Never give anything by mouth to an unconscious person; vomiting may cause aspiration into the lungs resulting In chemical pneumonia

Inhalation:

- Remove to fresh air
- If exposure Is severe, hospitalize and observe
- If breathing has stopped, give artificial respiration

Notes to physician:

- Routes of entry: Eyes, skin, ingestion, Inhalation mist
- Target organs: Eyes, skin, respiratory system

5. Fire Fighting Measures

Flash Point: 80°C

NFPA CLASSIFICATION:
Health: 3 Flammability: 2 Reactivity: 2 Special Provisions -

Special Fire Fighting Procedures:
- Evacuate all personnel from danger area
- Use water spray to cool fire-exposed containers and structures

Special Protective Equipment for Firefighters:
- Body covering protective clothing
- Self-contained breathing apparatus

Extinguishing Media:
- Water fog
- Foam
- CO_2
- Dry chemical
- Dry sand

Fire Fighting Instructions:
- Other harmful gases and vapors may be formed in addition to the major combustion products of carbon dioxide and carbon monoxide
- There is a potential for an explosive decomposition in a fire situation
- Once ignited, this product will burn vigorously and with acceleration

6. Accidental Release Measures

Personal Precautions:
- Avoid contact with eyes and skin
- Avoid contact with liquid and vapors
- Provide sufficient ventilation

Environmental Precautions:
- Avoid runoff to sewers or waterways
- This product has limited solubility in water

Methods for Cleaning Up:
- Stop the leak if it can be done without risk
- Dike to contain spill
- Absorb on inert material such as sand, earth, vermiculite
- Cover by foam or wet with small quantities of water
- Sweep up using non-sparking equipment
- Collect in a suitable container for disposal

- **Storage Material:**
  - ✓ Polypropylene
  - ✓ Polyethylene
- Dispose of waste material in compliance with all federal, state, and local regulations

7. Handling and Storage

HANDLING:

Handling Precautions:

- Keep containers tightly closed to prevent contamination
- Avoid contact with eyes, skin and clothing
- Do not eat, drink or smoke when handling
- Wear recommended personal protection equipment
- Remove contaminated clothing and wash before use
- Use spark-proof tools and explosion-proof equipment

Other Precautions:

- Store containers in a well-ventilated area
- Open them cautiously, in case they may be under slight pressure
- Have good ventilation and suitable protective equipment in areas where containers will be opened

STORAGE:

Requirements:

- Regulated as an Organic Peroxide, Class 5.2 for storage and handling
- Store in original containers away from incompatible materials
- Avoid direct sunlight, flames and all sources of heat

Further Information:

- Maximum Storage temperature: 38°C (100°F)
- To maintain product's original manufactured assay in long term storage, store below 30°C (86°F) is strongly recommended
- Shelf Life:
  - ✓ Calculated from half-life data in benzene solution
  - ✓ Estimate >48 months at which 95% of the original manufactured assay remains when stored at or below 30°C (86°F)

8. Exposure Controls / Personal Protection

Engineering Controls:

Ventilation:

- General (mechanical) room ventilation is expected to be satisfactory

Eye Protection:

- Wear suitable eye protection
- Face shield
- Safety goggles
- Contact lenses should not be worn

Skin Protection:

- Neoprene type gloves

Respiratory Protection:

- None required in normal use
- Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area

Exposure Limits:

Component	Authority	Value
Methyl ethyl ketone peroxides	Ceiling, ACGIH	1.5 mg/m^3
Dimethyl phthalate	TWA	5.0 mg/m^3

9. Physical and Chemical Properties

Boiling Point:	Decomposition: 68°C	**Physical State**	Liquid
Specific Gravity	1.072 at 25°C	**Color**	Colorless to light yellow
Flash Point:	80°C	**Kinematic Viscosity**	15 cSt at 25°C
Method:	Setaflash closed cup ASTM D 3828		

10. Stability and Reactivity

Stability:

- Stable only when stored at or below recommended temperature (see section VII)
- SADT
  - ✓ Value: 70°C
  - ✓ 40# Package

Conditions to Avoid:

- Contamination with ANY foreign substance
- Exposure to heat
- Protect from direct sunlight

Incompatible Materials:

- Strong acids
- Reducing agents
- Accelerators
- Promoters
- Other reactive materials

Hazardous Polymerization: Will not occur

Hazardous Decomposition or By-Products

- Carbon monoxide
- Carbon dioxide
- Hydrocarbons

11. Toxicological Information

Test Results:

Acute Toxicity INGESTION:

- Test substance: 9% AO MEKP
- LD50 – Rat
- Result: 1,017 mg/kg

Acute Toxicity Skin Absorption:

- Test substance: 9% AO MEKP
- LD50 – Rabbit
- Result: 4,000 mg/kg

Acute Toxicity Inhalation:

- Test substance: 9% AO MEKP
- LC50 – Mouse
- Result: 17 mg/l
- Exposure time: 4 hours

Skin Irritation Skin Contact:

- Species – Rabbit
- Result – No data available

Eye Irritation Eye Contact:

- Species – Rabbit
- Result - Corrosive

12. Ecological Information

- This product is stable in water
- Can be mechanically separated from water
- The water may be suitable for disposal in a biological waste water treatment plant

13. Disposal Considerations

US Waste:

- Dispose of waste material in compliance with all federal, state, and local regulations
- Hazaardous waste ID number U160 & U102 (MEKP & DMP)
- See 40CFR261.33(f)

14. Transport Information

DOT Classification

Proper Shipping Name:
Organic Peroxide Type D, Liquid (Methyl ethyl ketone peroxides, ≤45%

Class: 5.2

UN ID #: UN 3105

Packing group: II

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Max weight %
Dimethyl phthalate	131-11-3	32.0 – 36.0

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical Name	CAS#	Max weight %
Methyl ethyl ketone peroxides	1338-23-4	36.0 – 40.0
(% Active oxygen)		
Dimethyl phthalate	131-11-3	32.0 – 36.0
Proprietary Safety Diluent		

Chemical Inventory:

Canada: The ingredients of this product are on the DSL

Europe: The ingredients of this mixture are on the EINECS inventory

United States: The ingredients of this product are on the TSCA inventory

Australia: The ingredients of this product are on the AICS inventory

16. Other Information

Dust generated from the sanding or finishing of certain types of hardened resins can spontaneously combust if stored or disposed of improperly. Consult your resin manufacturer for proper dust and disposal.

HMIS Hazard Classification

Health: 3 **Flammability: 2** **Reactivity: 2** **Protection:**

Legend:

STP	Standard temperature and pressure
W/W	Weight / Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

Preparation Date: 11-3-2010

Prepared by: Fiberlay Inc

Comments: This Material Safety Data Sheet was prepared using information provided by Fiberlay Inc, and CCINFO

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Revisions: None