

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Part No. MF\_S\_MEKsolvent

Product Name: Methyl Ethyl Ketone

Product Description: Methyl Ethyl Ketone

Product Formulation Name: Methyl Ethyl Ketone

Family Name: Ketone

Generic Name: 2-Butanone, MEK

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### 1. Manufacturer Information: Distributed by Michigan Fiberglass Sales

22900 east industrial drive

St. Clair Shores, MI 48080

Phone: 586-777-2032

Fax : 586-777- 0350

### Emergency Phone Numbers:

586-777-2032

800-424-9300

Information:

Product Safety Information: 586-777-2032

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt %</u>	<u>CAS# EINECS#</u>
2-Butanone	>99	78-93-3

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Warning! Flammable Liquid and vapor. High vapor concentrations may Cause drowsiness and irritation of the eyes or respiratory tract. Prolonged or repeated skin contact may Cause drying, cracking, or irritation.

### POTENTIAL HEALTH EFFECTS

#### INHALATION

Dizziness, impaired coordination, headache and loss of consciousness. Severe respiratory tract irritation. Toxic systematic effects are possible.

#### SKIN

Moderate irritation and discomfort. Defracting of skin and redness are possible. Toxic systemic effects from absorption are expected to be minor.

#### EYES

Severe irritation and discomfort. Reversible and/or irreversible corneal damage may occur

#### INGESTION

May cause Nausea, Diarrhea, Vomiting, Inebriation, Difficulty breathing, Headache, Coma

#### Chronic:

Prolonged or repeated exposure may cause the following effects: Dermatitis and skin defracting; conjunctivitis; inflammation of the respiratory tract, weakness; drowsiness; Liver and Kidney Damage; Clinical Neuropathy.

### MEDICAL CONDITIONS AGGRAVATED

Persons with Chronic respiratory or skin diseases. Persons with a history of Peripheral Neuropathy.

#### **ROUTES OF ENTRY**

Absorption, Inhalation, Ingestion

#### **TARGET ORGAN STATEMENT**

CNS depressant

### **3. FIRST AID MEASURES**

#### **INHALATION**

Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention..

#### **SKIN**

Remove contaminated clothing, wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.

#### **EYES**

Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention

#### **INGESTION**

DO not induce Vomiting. Get immediate medical attention.

### **4. FIRE FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA**

Foam, Dry Chemical, Carbon Dioxide, Water Fog

#### **FIRE FIGHTING INSTRUCTIONS**

Treat as highly flammable/explosive vapor solvent. Vapor is heavier than air and may travel to ignition sources and flashback. Keep unignited containers cool with water. Contaminated fire control waters should be diked or collected in ponds if possible and disposed of properly. Use eye and skin protections and self-contained breathing apparatus.

#### **FLAMMABLE PROPERTIES**

**Flash Point** (16 F)

**Flammable Limits:** 1.4 to 11.4

**Autoignition Temperature:** (759 F)

**Flammable Class:** Treat as ASHA Class 1B Flammable liquid

**Special fire Fighting Procedures:** Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and for any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

### **5. ACCIDENTAL RELEASE MEASURES**

#### **Small Spill:**

Extinguish all sources and ventilate area. Evacuate all non-essential personell. Blanket spill with alcohol resistant foam to limit evaporation. Dike area to contain spill and clean up by absorbing on Inert absorbent or by other means. Liquid may be flammable even when mixed with water unless heavily diluted (>5:1). Do not flush into sewers or natural waterways.

#### **Large Spill:**

Contain material as described above and call the local fire or police department for immediate emergency assistance.

### **6. HANDLING AND STORAGE**

#### **HANDLING**

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapors can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.

#### **STORAGE**

Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

## 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS					
	OSHA PEL	ACGIH TLV	SUPPLIER	OEL		
	Ppm	mg/ma	ppm	mg/ma	ppm	mg/ms
2-Butanone	TWA 200	200				
	STEL	300				

ENGINEERING CONTROLS: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure guidelines, additional ventilation or exhaust systems may be required. When explosive mixtures may be present, electrical systems safe for such locations must be used.

## PERSONAL PROTECTION

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### EYE AND FACE PROTECTION

Wear safety glasses with side shields or goggles when handling this material.

### SKIN

To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole body suit, as appropriate.

### RESPIRATORY PROTECTION

Use NOISH/MSHA approved respirators when vapor or mists concentrations exceed permissible exposure limits..

## 8. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet Pungent odor

**APPEARANCE:** Clear

**pH:** Not Available

**PERCENT VOLATILE:** 100

**VAPOR PRESSURE:** 100 mmHg at 25 C

**VAPOR DENSITY:** 2.5 (Air@1)

**BOILING POINT:** 176F

**FREEZING POINT:** -123F

**SOLUBILITY IN WATER:** Partially Soluable

**EVAPORATION RATE:** 2.7 (n-Butyl Acetate=1)

**SPECIFIC GRAVITY:** 0.81 (water = 1) at 20 C

**MOLECULAR FORMULA:** C<sub>4</sub>H<sub>8</sub>O

**MOLECULAR WEIGHT:** 72.12 80180ML6

## 9. STABILITY AND REACTIVITY

**STABLE:** yes

Stable

**HAZARDOUS POLMERIZATION:** no

### CONDITIONS TO AVOID

Avoid heat, sparks and open flame.

### INCOMPATIBILITY

Strong oxidizers

### HAZARDOUS DECOMPOSITION PRODUCTS

Oxidises of Carbon when burned. **POLYMERIZATION**

Will not polymerize.

## **10. ECOLOGICAL INFORMATION**

No data available

## **11. DISPOSAL CONSIDERATIONS**

Follow federal, state and local regulations. In Canada, follow federal, provincial and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

## **13. TRANSPORT INFORMATION**

### **DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Methyl Ethyl Ketone

**PRIMARY HAZARD CLASS/DIVISION:**3

**UN/NA NUMBER** UN1193

**PACKING GROUP:** II

**LABEL:** FLAMMABLE LIQUID

## **14. OTHER INFORMATION**

### **NFPA CODES**

**HEALTH:2 FIRE:3 REACTIVITY:0**

### **HMIS CODES**

**HEALTH:2 FIRE:3 REACTIVITY:0 PROTECTION:X**

### **Manufacturer Disclaimer:**

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