

# SAFETY DATA SHEET



Date Prepared : 6/26/2012  
 MSDS No : MRO Solution 20 - GHS  
 Date-Revised : 5/13/2015  
 Revision No : 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION:** MRO Solution 20 - 40200, 40201, 40202

### MANUFACTURER

MRO Solutions L.L.C.  
 5645 West Howard Street  
 Niles, IL 60714  
**Service Number:** (847) 588-2480

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC:** (800) 424-9300

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Skin Irritation, Category 2  
 Eye Irritation, Category 2  
 Skin Sensitization, Category 1  
 Respiratory Tract Irritation, Category 3

### GHS LABEL ELEMENTS



Exclamation  
 mark

**SIGNAL WORD:** WARNING

### HAZARD STATEMENTS

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P271: Use only outdoors or in a well-ventilated area.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P272: Contaminated work clothing should not be allowed out of the workplace.

#### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P362: Take off contaminated clothing and wash before reuse.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

#### Disposal:

7944L5O1: Dispose of in a manner consistent with federal, state, and local regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Methacrylate monomer	15 - 20	25852-47-5
2-HYDROXYETHYL METHACRYLATE	15 - 20	868-77-9
Resinous compound	5 - 10	
Saccharin	1 - 3	81-07-2
CUMENE HYDROPEROXIDE	1 - 3	80-15-9

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Causes eye irritation.

**SKIN:** Causes skin irritation. Allergic reactions are possible.

**SKIN ABSORPTION:** Remove contaminated clothing and wash affected areas with soap and water. Prolonged or repeated contact can cause dermatitis in sensitive individuals. Contact a physician if irritation persists.

**INGESTION:** Slight to very low toxicity.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

**ACUTE TOXICITY:** Irritating to skin. May cause allergic skin reaction with prolonged contact.

**CHRONIC EFFECTS:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not Flammable

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

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**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

**EXPLOSION HAZARDS:** None known.

**FIRE FIGHTING PROCEDURES:** Firefighters should wear self-contained breathing apparatus and protective clothing.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**FIRE EXPLOSION:** None known.

**SENSITIVE TO STATIC DISCHARGE:** None known.

**SENSITIVITY TO IMPACT:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal.

**LARGE SPILL:** Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed container for disposal.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LAND SPILL:** None known.

**AIR SPILL:** None known.

**SPECIAL PROTECTIVE EQUIPMENT:** Use Vinyl latex gloves, chemical splash goggles or safety glasses with side shields.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

**HANDLING:** Avoid contact with skin and eyes. Wash thoroughly after handling.

**STORAGE:** Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

**STORAGE TEMPERATURE:** Suggested storage conditions: Less than 77F/25C. Protect from freezing.

**LOADING TEMPERATURE:** Not Established

**LOADING/UNLOADING VISCOSITY:** Not Established

**STORAGE PRESSURE:** Not Established

**SPECIAL SENSITIVITY:** Not Established

**ELECTROSTATIC ACCUMULATION HAZARD:** No data available on this product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient to control airborne levels.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Vinyl or rubber gloves.

**RESPIRATORY:** This material does not have established exposure limits. Wear a positive pressure air-supplied respirator in situations where there may be potential for airborne exposure.

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**PROTECTIVE CLOTHING:** Not Applicable.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild odor.

**ODOR THRESHOLD:** Not Established

**APPEARANCE:** Green liquid.

**COLOR:** Green

**pH:** Not Applicable

**PERCENT VOLATILE:** Not Applicable

**FLASHPOINT AND METHOD:** > 93°C (200°F) Pinsky-Martens CC

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** > 1 (Air=1)

**BOILING POINT:** > 149°C (300°F)

**FREEZING POINT:** No data available on this product.

**MELTING POINT:** Not Established

**POUR POINT:** Not Established

**THERMAL DECOMPOSITION:** Not Established

**SOLUBILITY IN WATER:** Negligible

**EVAPORATION RATE:** Not Established

**DENSITY:** Not Established

**SPECIFIC GRAVITY:** 1.09

**VISCOSITY #1:** 80 to 180 Centipoise

**(VOC):** 34.000 %

**COEFF. OIL/WATER:** No data available on this product.

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable.

**POLYMERIZATION:** Avoid temperatures exceeding 100F/38C and incompatible materials.

**CONDITIONS TO AVOID:** Avoid temperatures exceeding 100F/38C and incompatible materials.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous reactions are possible when exposed to incompatible materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

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**COMMENTS:** REACTIVITY: product may react if exposed to amines, inert gases, metallic salts, heat sources or oxidizers.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

#### NOTES:

<u>INGREDIENT</u>	<u>LD50 and LC50 data</u>	<u>IMMEDIATE &amp; DELAYED HEALTH EFFECTS</u>
Methacrylate monomer	Not established	Allergen, Irritant
Hydroxyethyl methacrylate	Not established	Allergen, Irritant
Resinous compound	Not established	Irritant
Saccharin	Not established	No target organs or effects known
Cumene hydroperoxide	Not established	Allergen, CNS, corrosive, Irritant
(contains Cumene, CAS 98-82-8, <0.1%)	Oral LD50 rat = 1,400 mg/kg; Inhalation LC50 rat, 4 hr = 8000ppm	CNS, Irritant, Lung IARC Group 2B carcinogen

**EYE EFFECTS:** Moderately irritating to eyes and skin.

**SKIN EFFECTS:** Irritating to skin. May cause allergic skin reaction with prolonged contact.

**CHRONIC:** Repeated exposure may cause skin sensitization.

**SUBCHRONIC:** Not yet Known

#### CARCINOGENICITY

**IARC:** No data available on this product.

**NTP:** No data available on this product.

**OSHA:** No data available on this product.

**IRRITATION:** May cause eye irritation, skin irritation and irritation of respiratory tract.

**CORROSIVITY:** None known.

**SENSITIZATION:** May cause sensitization by skin contact.

**NEUROTOXICITY:** No data available on this product.

**GENETIC EFFECTS:** No data available on this product.

**REPRODUCTIVE EFFECTS:** No data available on this product.

**TARGET ORGANS:** May cause sensitization by skin contact.

**TERATOGENIC EFFECTS:** No data available on this product.

**MUTAGENICITY:** No data available on this product.

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No known ecological affects of cured product.  
**ECOTOXICOLOGICAL INFORMATION:** No data available on this product.  
**BIOACCUMULATION/ACCUMULATION:** No data available on this product.  
**DISTRIBUTION:** No data available on this product.  
**AQUATIC TOXICITY (ACUTE):** No data available on this product.  
**CHEMICAL FATE INFORMATION:** No data available on this product.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in a manner consistent with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not restricted

### ROAD AND RAIL (ADR/RID)

**PROPER SHIPPING NAME:** Not restricted

### AIR (ICAO/IATA)

**SHIPPING NAME:** Not restricted

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not restricted

### CANADA TRANSPORT OF DANGEROUS GOODS

**SHIPPING NAME:** Not restricted

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Section 313: Cumene hydroperoxide (CAS 80-15-9), less than 3%.

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Saccharin	1 - 3	81-07-2
CUMENE HYDROPEROXIDE	1 - 3	80-15-9

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Contains Cumene hydroperoxide (CAS 80-15-9), less than 3%.

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Chemical Name	Wt.%	CERCLA RQ
Saccharin	1 - 3	100
CUMENE HYDROPEROXIDE	1 - 3	10

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Methacrylate monomer	25852-47-5
2-HYDROXYETHYL METHACRYLATE	868-77-9
Saccharin	81-07-2
CUMENE HYDROPEROXIDE	80-15-9

**TSCA STATUS:** All components are listed on or are exempt from listing on the Toxic Substances Control Act.

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Cumene hydroperoxide (CAS 80-15-9) which contains Cumene (CAS 98-82-8), at a level of <0.1%.

## CANADA

### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

**WHMIS CLASS:** D2B - Toxic (Irritant)

## 16. OTHER INFORMATION

**TITLE:** Regulatory Affairs Manager

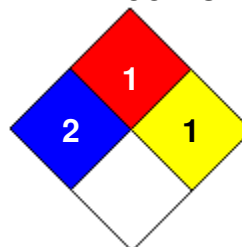
**PREPARED BY:** Mary Robles **Date-Revised:** 5/13/2015

**REVISION SUMMARY:** This MSDS replaces the 1/30/2015 MSDS. Revised: **Section 1:** PREPARED BY.

### HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	B

### NFPA CODES



**HMIS RATINGS NOTES:** Safety glasses and gloves are recommended for usage.

**MANUFACTURER DISCLAIMER:**

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