

SAFETY DATA SHEET



Date Prepared : 12/19/2014
 MSDS No : MRO Solution 15 - GHS
 Date-Revised : 5/13/2015
 Revision No : 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: MRO Solution 15 - 40115, 40116, 40117

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
 Target Organ Toxicity (Single exposure), Category 3
 Skin Sensitization, Category 2

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.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P362: Take off contaminated clothing and wash before reuse.
 P264: Wash skin and hands thoroughly after handling.

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.

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P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

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	50 - 55	25852-47-5
Polyglycol oleate	35 - 40	9904-96-0
Saccharin	3 - 5	81-07-2
Silica, Amorphous, Fumed	1 - 3	112945-52-5
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. Keep individual calm. Get medical attention and show container label.

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

ELECTROSTATIC ACCUMULATION HAZARD: Not Established

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.

PROTECTIVE CLOTHING: Not Applicable.

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WORK HYGIENIC PRACTICES: Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Mild odor.
ODOR THRESHOLD: Not Established
APPEARANCE: Purple liquid.
COLOR: Purple.
pH: Not Applicable
PERCENT VOLATILE: Not Applicable
FLASHPOINT AND METHOD: > 93°C (200°F) Pensky-Martens CC
FLAMMABLE LIMITS: Not Established
AUTOIGNITION TEMPERATURE: Not Established
VAPOR PRESSURE: < 5 mmHg at 27°C (80°F)
VAPOR DENSITY: Not Established
BOILING POINT: > 149°C (300°F)
FREEZING POINT: Not Established
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: 1.05
VISCOSITY #1: 800 to 1600 Centipoise
(VOC): 146.000 g/L

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable.
POLYMERIZATION: Will not occur.
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.
COMMENTS: REACTIVITY: product may react if exposed to amines, inert gases, metallic salts, heat sources or oxidizers.

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11. TOXICOLOGICAL INFORMATION

ACUTE

NOTES:

<u>INGREDIENT</u>	<u>LD50 and LC50 data</u>	<u>IMMEDIATE & DELAYED HEALTH EFFECTS</u>
Methacrylate monomer	Not established	Allergen, 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: None known.

NTP: None known.

OSHA: None known.

Notes: WARNING: This product contains chemicals known to the state of California to cause cancer.

CORROSIVITY: None known.

SENSITIZATION: May cause sensitization by skin contact.

TERATOGENIC EFFECTS: No data available on this product.

MUTAGENICITY: No data available on this product.

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

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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)

311/312 HAZARD CATEGORIES: Immediate (acute) health and Delayed (chronic) health hazards.

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%.

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
Saccharin	81-07-2
CUMENE HYDROPEROXIDE	80-15-9

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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

IRRITANT

WHMIS CLASS: D2B - Toxic (Irritant)

16. OTHER INFORMATION

TITLE: Regulatory Affairs Manager

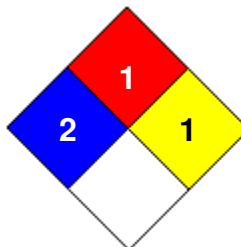
PREPARED BY: Mary Robles **Date-Revised:** 5/13/2015

REVISION SUMMARY: This MSDS replaces the 12/19/2014 MSDS. Revised: **Section 15:** CALIFORNIA PROPOSITION 65.

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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