

SAFETY DATA SHEET



Date Prepared : 03/23/2015
 MSDS No : 11790503_PL34546
 Date-Revised : 09/19/2017
 Revision No : 1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: 40118 SOL 16 HI STRG/TEMP STUD 50ML

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

MRO Solutions – For Chemical Emergency/Information:
 (847) 588-2480

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Inhalation), Category 1
 Skin Irritation, Category 2
 Eye Damage, Category 1
 Skin Sensitization, Category 1
 STOT SE, Category 3
 Aquatic, Acute 3

GHS LABEL ELEMENTS

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Corrosion



Skull and
crossbones



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H330: Fatal if inhaled.
 H335: May cause respiratory irritation.
 H402: Harmful to aquatic life.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.

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P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P262: Do not get in eyes, on skin, or on clothing.
 P264: Wash skin and hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314: Get medical advice/attention if you feel unwell.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362: Take off contaminated clothing.
 P363: Wash contaminated clothing before reuse.
 P337: If eye irritation persists: seek medical attention.

Storage:

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

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
bisphenol A ethoxylate dimethacrylate	34 - 68	41637-38-1
N,N-m-Phenyl dimaleimide	10 - 25	3006-93-7
2-HYDROXYETHYL METHACRYLATE	> 7.57	868-77-9
2,6-di-tert-butyl-p-cresol	< 5	128-37-0
Ethylene glycol	< 5	107-21-1
Maleic acid	< 5	110-16-7
Cumene Hydroperoxide	0.8 - 0.9	80-15-9
Cumene	0.02 - 0.155	98-82-8
Methanol	0.001 - 0.01	67-56-1
Acetic Acid	≤ 0.000366	64-19-7

4. FIRST AID MEASURES

EYES: Immediately flush eyes with large quantities of water for several minutes, while holding eyelids apart. Remove contact

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lenses if easy to do so. Continue rinsing. Get medical attention if irritation or bonding occurs.

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.

INGESTION: Low ingestion hazard in normal use.

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

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

CHRONIC EFFECTS: May cause dry skin. Prolonged or excessive inhalation may cause respiratory tract irritation.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Flammable

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

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

EXPLOSION HAZARDS: Not Applicable.

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

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

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, carbon dioxide and unknown fumes.

6. ACCIDENTAL RELEASE MEASURES

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

LARGE SPILL: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

ENVIRONMENTAL PRECAUTIONS

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

LAND SPILL: Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

AIR SPILL: Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

GENERAL PROCEDURES: Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

SPECIAL PROTECTIVE EQUIPMENT: Use plastic/rubber gloves, chemical splash goggles or safety glasses with side shields.

7. HANDLING AND STORAGE

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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.

ELECTROSTATIC ACCUMULATION HAZARD: No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	Type	EXPOSURE LIMITS		
			ppm	mg/m ³
2,6-di-tert-butyl-p-cresol	ACGIH TLV	TWA		2
Ethylene glycol	ACGIH TLV	TWA	[1]	100 [1]
Cumene Hydroperoxide	OSHA PEL	TWA	50	245
Cumene	OSHA PEL	TWA	50	245
	ACGIH TLV	TWA	50	246
Methanol	OSHA PEL	TWA	200 ppm [2]	260 mg/m ³ [2]
		STEL	ppm	mg/m ³
	ACGIH TLV	TWA	200 ppm	262 mg/m ³
		STEL	250 ppm	328 mg/m ³
	Supplier OEL	TWA	NL ppm	NL mg/m ³
		STEL	NL ppm	NL
Acetic Acid	OSHA PEL	TWA	10	25
	ACGIH TLV	TWA	10	25
		STEL	15	37

OSHA TABLE COMMENTS:

1. Aerosol only
2. S = Skin

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: No data available

APPEARANCE: Red liquid.

COLOR: Red.

pH: 3 to 6

PERCENT VOLATILE: No data available

FLASHPOINT AND METHOD: > 93.3°C

AUTOIGNITION TEMPERATURE: No data available

VAPOR PRESSURE: < 5 mm Hg at 27°C (80°F)

VAPOR DENSITY: No data available

BOILING POINT: No data available

FREEZING POINT: No data available

MELTING POINT: No data available

POUR POINT: No data available

THERMAL DECOMPOSITION: No data available

SOLUBILITY IN WATER: No data available

EVAPORATION RATE: No data available

DENSITY: 1.1 g/cm³

SPECIFIC GRAVITY: No data available

VISCOSITY: No data available

MOLECULAR WEIGHT: No data available

(VOC): to 0.00 %

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable

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

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions are possible when exposed to incompatible materials such as nitrates, chlorine, ammonia, strong oxidizers, alkalis, and acids

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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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
2-HYDROXYETHYL METHACRYLATE	5564 mg/kg	> 3000 mg/kg	
2,6-di-tert-butyl-p-cresol	890 mg/kg (rat)	> 2000 mg/kg (rat)	
Ethylene glycol	> 5000 mg/kg (rat)	10626 mg/kg (rabbit)	
Maleic acid	2870 mg/kg (rat)	2620 mg/kg (rabbit)	
Cumene Hydroperoxide	382 mg/kg (rat)	133 mg/kg (rabbit)	220 ppm per 4 hr (rat)
Cumene	> 2000 mg/kg (rat)	10578 mg/kg (rabbit)	8000 ppm per 4 hr (rat)
Acetic Acid	6190 mg/kg		

SERIOUS EYE DAMAGE/IRRITATION: May cause eye irritation, skin irritation and irritation of respiratory tract.

RESPIRATORY OR SKIN SENSITISATION: May cause sensitization by skin contact.

GERM CELL MUTAGENICITY: No data available.

CARCINOGENICITY

Chemical Name	IARC Status
2,6-di-tert-butyl-p-cresol	3

REPRODUCTIVE TOXICITY: No data available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Prevent product from entering drains or sewers in case of spill.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

FOR LARGE SPILLS: Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

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

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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Cumene Hydroperoxide	0.8 - 0.9	10
Cumene	0.02 - 0.155	5,000
Methanol	0.001 - 0.01	5,000 lbs.
Acetic Acid	≤ 0.000366	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
bisphenol A ethoxylate dimethacrylate	41637-38-1
N,N-m-Phenyl dimaleimide	3006-93-7
2-HYDROXYETHYL METHACRYLATE	868-77-9
2,6-di-tert-butyl-p-cresol	128-37-0
Ethylene glycol	107-21-1
Maleic acid	110-16-7
Cumene Hydroperoxide	80-15-9
Cumene	98-82-8
Methanol	67-56-1
Acetic Acid	64-19-7

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

CALIFORNIA PROPOSITION 65: WARNING: This product can expose you to chemicals including Cumene, which is known to the State of California to cause cancer, and Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name	Wt.%	Listed
Ethylene glycol	< 5	Developmental Toxicity
Cumene	0.02 - 0.155	Cancer

16. OTHER INFORMATION

TITLE: Regulatory Affairs Manager

PREPARED BY: Regulatory Affairs Manager

Date-Revised: 09/19/2017

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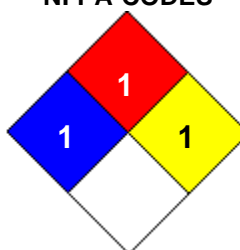
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REVISION SUMMARY: This MSDS replaces the 03/24/2015 MSDS. Revised: **Section 1:** MSDS No, PREPARED BY, TITLE. **Section 2:** . **Section 3:** Wt.%. **Section 4:** CHRONIC EFFECTS, SIGNS AND SYMPTOMS OF OVEREXPOSURE - SKIN ABSORPTION. **Section 5:** EXPLOSION HAZARDS, FIRE EXPLOSION, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. **Section 6:** GENERAL PROCEDURES, SPECIAL PROTECTIVE EQUIPMENT, . **Section 7:** LOADING TEMPERATURE, LOADING/UNLOADING VISCOSITY, SPECIAL SENSITIVITY, STORAGE PRESSURE. **Section 9:** AUTOIGNITION TEMPERATURE, BOILING POINT, COEFF. OIL/WATER, DENSITY, EVAPORATION RATE, FLASHPOINT AND METHOD, FREEZING POINT, MELTING POINT, MOLECULAR WEIGHT, PERCENT VOLATILE, pH, POUR POINT, SOLUBILITY IN WATER, SPECIFIC GRAVITY, VAPOR DENSITY, VAPOR PRESSURE, VISCOSITY, VISCOSITY #1, (VOC), THERMAL DECOMPOSITION, . **Section 10:** STABLE. **Section 11:** ACUTE (DERMAL LD₅₀ (rabbit), DERMAL LD₅₀ (rabbit), DERMAL LD₅₀ (rabbit), ORAL LD₅₀ (rat), ORAL LD₅₀ (rat), ORAL LD₅₀ (rat), ORAL LD₅₀ (rat)), IARC, NEUROTOXICITY, NTP, OSHA, SUBCHRONIC, TERATOGENIC EFFECTS, GENETIC EFFECTS, GERM CELL MUTAGENICITY, REPRODUCTIVE TOXICITY, STOT-SINGLE EXPOSURE, SKIN CORROSION/IRRITATION. **Section 12:** ECOTOXICOLOGICAL INFORMATION, BIOACCUMULATION/ACCUMULATION. **Section 13:** DISPOSAL METHOD. **Section 15:** ACUTE, 313 REPORTABLE INGREDIENTS, CALIFORNIA PROPOSITION 65, WHMIS CLASS. **Section 16:** HMIS RATING - HEALTH NFPA CODES - HEALTH.

HMIS RATING

HEALTH		1
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		B

NFPA CODES



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

MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, MRO Solutions does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.