

SAFETY DATA SHEET



Date Prepared : 06/26/2012
 MSDS No : 11790461_PL34499
 Date-Revised : 09/19/2017
 Revision No : 5

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: 40122 SOLUTION 17 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:

Skin Irritation, Category 2
 Eye Irritation, Category 2
 Skin Sensitization, Category 1
 Target Organ Toxicity (Single exposure) - Respiratory, Category 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.



Exclamation
 mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H317: May cause an allergic skin reaction.
 H315: Causes skin irritation.
 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.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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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.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P313: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362: Take off contaminated clothing.

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
Polyethylene Glycol Dimethacrylate	25 - 60	25852-47-5
2-HYDROXYETHYL METHACRYLATE	> 13	868-77-9
Ethene, homopolymer	< 5	9002-88-4
2,6-di-tert-butyl-p-cresol	< 5	128-37-0
Ethylene glycol	< 5	107-21-1
Benzoquinone	< 5	106-51-4
Maleic acid	< 5	110-16-7
Cumene Hydroperoxide	1 - 3	80-15-9
Cumene	< 0.1395	98-82-8
Acetic Acid	≤ 0.000183	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 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.

SKIN ABSORPTION: Remove contaminated clothing and wash affected areas with soap and water. Prolonged or repeated

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contact can cause dermatitis in sensitive individuals. Contact a physician if irritation persists.

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 skin sensitization.

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.

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

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: No known ecological affects of cured product.

LAND 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.

AIR 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.

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

SPECIAL PROTECTIVE EQUIPMENT: Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section).

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
2,6-di-tert-butyl-p-cresol	ACGIH TLV	TWA		2
Ethylene glycol	ACGIH TLV	TWA	[1]	100 [1]
Benzoquinone	OSHA PEL	TWA	0.1	0.4
	ACGIH TLV	TWA	0.1	0.44
Cumene Hydroperoxide	OSHA PEL	TWA	50	245
Cumene	OSHA PEL	TWA	50	245
	ACGIH TLV	TWA	50	246
Acetic Acid	OSHA PEL	TWA	10	25
	ACGIH TLV	TWA	10	25
		STEL	15	37

OSHA TABLE COMMENTS:
 1. Aerosol only

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.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Low odor.

ODOR THRESHOLD: No data available

APPEARANCE: Blue liquid

COLOR: Blue

pH: No data available

PERCENT VOLATILE: No data available

FLASHPOINT AND METHOD: No data available

AUTOIGNITION TEMPERATURE: No data available

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VAPOR PRESSURE: No data available
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: No data available
SPECIFIC GRAVITY: No data available
VISCOSITY: No data available
MOLECULAR WEIGHT: No data available
(VOC): No data available

10. STABILITY AND REACTIVITY

REACTIVITY: Yes
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.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

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Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Polyethylene Glycol Dimethacrylate	> 2000 mg/kg		
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)	
Benzoquinone	130 mg/kg (rat)		
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.

CARCINOGENICITY

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No known ecological affects of cured product.

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

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

13. DISPOSAL CONSIDERATIONS

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

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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

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Benzoquinone	< 5	106-51-4
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
Benzoquinone	< 5	10
Cumene Hydroperoxide	1 - 3	10
Cumene	< 0.1395	5,000
Acetic Acid	≤ 0.000183	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Polyethylene Glycol Dimethacrylate	25852-47-5
2-HYDROXYETHYL METHACRYLATE	868-77-9
Ethene, homopolymer	9002-88-4
2,6-di-tert-butyl-p-cresol	128-37-0
Ethylene glycol	107-21-1
Benzoquinone	106-51-4
Maleic acid	110-16-7
Cumene Hydroperoxide	80-15-9
Cumene	98-82-8
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

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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	< 0.1395	Cancer

16. OTHER INFORMATION

APPROVED BY: Regulatory Affairs Manager

PREPARED BY: Regulatory Affairs Manager

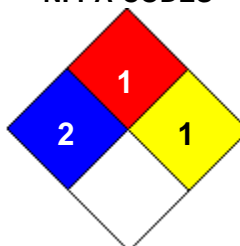
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REVISION SUMMARY: This MSDS replaces the 02/18/2015 MSDS. Revised: **Section 1:** APPROVED BY, MSDS No, PREPARED BY, TITLE. **Section 2:** . **Section 3:** Wt.%. **Section 5:** EXPLOSION HAZARDS, FIRE EXPLOSION, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. **Section 6:** GENERAL PROCEDURES, . **Section 7:** ELECTROSTATIC ACCUMULATION HAZARD, LOADING TEMPERATURE, LOADING/UNLOADING VISCOSITY, SPECIAL SENSITIVITY, STORAGE PRESSURE. **Section 9:** BOILING POINT, COEFF. OIL/WATER, FLAMMABLE LIMITS, FLASHPOINT AND METHOD, FREEZING POINT, MELTING POINT, MOLECULAR WEIGHT, ODOR THRESHOLD, PERCENT VOLATILE, pH, POUR POINT, SOLUBILITY IN WATER, SPECIFIC GRAVITY, VAPOR DENSITY, VAPOR PRESSURE, VISCOSITY, VISCOSITY #1, (VOC), . **Section 11:** ACUTE, IARC, NTP, OSHA, CARCINOGENICITY, GERM CELL MUTAGENICITY, REPRODUCTIVE TOXICITY, SKIN CORROSION/IRRITATION. **Section 12:** CHEMICAL FATE INFORMATION, AQUATIC TOXICITY (ACUTE). **Section 13:** DISPOSAL METHOD. **Section 15:** CALIFORNIA PROPOSITION 65, WHMIS CLASS.

HMIS RATING

HEALTH	<input type="checkbox"/>	2
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.