



Solution 40 Flexible Flange Sealant

05/31/201505/31/2015

Revision:Printed:

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 40501,40502
Product Name: Solution 40 Flexible Flange Sealant
Company Name: MRO Solutions, LLC 5645 W. Howard St. Niles, IL 60714
Web site address: <http://www.mrosolutions.com/>
Emergency Contact: CHEMTREC

Phone Number: +1 (847)588-2480
Phone Number: +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category

2A

Aquatic Toxicity (Chronic), Category 3

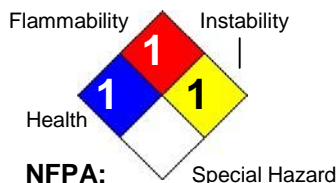


GHS Signal Word: Warning
GHS Hazard Phrases: H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H412 - Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases: P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P264 - Wash hands thoroughly after handling.
 P273 - Avoid release to the environment.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before re-use. P332+313 - If skin irritation occurs, get medical advice/attention.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.
 P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.



Hazard Rating System:
Potential Health Effects (Acute and Chronic): May cause an allergic skin reaction.



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- Inhalation:** No hazard expected in normal industrial use. May cause respiratory tract irritation. May cause respiratory difficulty and coughing.
- Skin Contact:** May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause burns to the skin.
- Eye Contact:** May cause eye irritation. May cause tearing, redness, and swelling. May cause eye burns.
- Ingestion:** No hazard expected in normal industrial use. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
25852-47-5	Polyglycol dimethacrylate	20.0 - 40.0 %
NA	Polymeric plasticizer	20.0 - 30.0 %
NA	Unsaturated polyester resin	20.0 - 30.0 %
13463-67-7	Titanium dioxide	1.00 - 5.00 %
9002-84-0	Polytetrafluoroethylene	1.00 - 5.00 %
9002-88-4	Polyethylene homopolymer	1.00 - 5.00 %
80-15-9	Cumene hydroperoxide	1.00 - 3.00 %
81-07-2	Saccharin	1.00 - 3.00 %
112945-52-5	Silica, amorphous treated	1.00 - 3.00 %

4. FIRST AID MEASURES

- Emergency and First Aid Procedures:**
- In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical advice/attention.
 - In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing separately before reuse.
 - In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid immediately.
 - In Case of Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a poison control center.
 - Note to Physician:** Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

- Flash Pt:** > 200 F (93.3 C) Method Used: TAG Closed Cup
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Dry chemical, CO2, alcohol-resistant foam or water spray.
- Unsuitable Extinguishing Media:** Use of water spray when fighting fire may be inefficient.



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Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear.

Flammable Properties and Hazards: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, oxides of nitrogen, oxides of sulfur, toxic. fluorine.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Do not let product enter drains, sewers, watersheds or water systems.

Steps To Be Taken In Case Material Is Released Or Spilled: Spills/Leaks: Provide ventilation. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use with adequate ventilation. Do not breathe dust, mist, or vapor. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Precautions To Be Taken in Storing: Store in a cool, dry place. Store below 100F. Store in well-ventilated place. Store away from heat. Store in a tightly closed container. Keep container closed when not in use.

Other Precautions: Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
25852-47-5	Polyglycol dimethacrylate	No data.	No data.	No data.
NA	Polymeric plasticizer	No data.	No data.	No data.
NA	Unsaturated polyester resin	No data.	No data.	No data.
13463-67-7	Titanium dioxide	PEL: 15 (dust) mg/m3	TLV: 10 mg/m3	No data.
9002-84-0	Polytetrafluoroethylene	No data.	No data.	No data.
9002-88-4	Polyethylene homopolymer	No data.	No data.	No data.
80-15-9	Cumene hydroperoxide	No data.	No data.	No data.
81-07-2	Saccharin	No data.	No data.	No data.
112945-52-5	Silica, amorphous treated	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Not required under normal use conditions. Avoid breathing vapors or dusts. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Eye Protection: Safety glasses, chemical goggles, and/or face shield should be worn.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Butyl, Rubber gloves. nitrile gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.



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Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental Exposure Controls: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: Appearance: White. Paste.
Odor: Slight.

Melting Point: No data. > 300

Boiling Point: F (149 C) No

Autoignition Pt: data.

Flash Pt: > 200 F (93.3 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.16

Density: NA

Vapor Pressure (vs. Air or mm Hg): < 5 MM_HG

Vapor Density (vs. Air = 1): NA

Evaporation Rate: NA

Solubility in Water: Slight

Saturated Vapor Concentration: NA

Viscosity: NA

pH: NA

Percent Volatile: N.A.

VOC / Volume: 1.30 G/L

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid - Ignition sources, Direct sunlight, High temperatures. Instability:

Incompatibility - Materials To Avoid: Strong oxidizing agents, Peroxides, amines, Alkalis, Aldehydes.

Hazardous Decomposition or Byproducts: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, oxides of nitrogen, oxides of sulfur, toxic. fluorine.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION



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Toxicological Information: Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.

Other Studies: CAS# 80-15-9:
Acute toxicity, LD50, Oral, Rat, 382 mg/kg.
Other Studies: CAS# 81-07-2:
Acute toxicity, LD50, Oral, Rat, 17 g/kg.
Other Studies: CAS# 13463-67-7:
Acute toxicity, TCLo, Inhalation, Rat, 1mg/kg.
Other Studies: CAS# 9002-88-4:
Acute toxicity, LD50, Oral, Rat, 18 g/kg.

Irritation or Corrosion: Other Studies: CAS# 80-15-9:
Standard Draize Test, Eyes, Species: Rabbit, 1 mg.
Other Studies: CAS# 13463-67-7:
Standard Draize Test, Skin, Species: Human, 300 ug.

Sensitization: No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

Other Studies: CAS# 13463-67-7:
LC50, Water Flea (Daphnia magna), juveniles, 5.50ppm, 48H.
Other Studies: CAS# 80-15-9:
LC50, Water Flea (Daphnia magna), juveniles, 16 mg/L, 24H.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of contents and containers in accordance with local, regional, national, and international regulations. Do not reuse container.



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14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI)

25852-47-5	Polyglycol dimethacrylate	No	No	No	NA	Polymeric plasticizer	No
	No	No	NA	Unsaturated polyester resin	No	No	No
13463-67-7	Titanium dioxide				No	No	No
9002-84-0	Polytetrafluorethylene	No	No	No	9002-88-4	Polyethylene homopolymer	No
80-15-9	Cumene hydroperoxide				No	Yes 10 LB	Yes
81-07-2	Saccharin				No	No	Yes
112945-52-5	Silica, amorphous treated				No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
25852-47-5	Polyglycol dimethacrylate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Polymeric plasticizer	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Unsaturated polyester resin	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
13463-67-7	Titanium dioxide	TSCA: Yes - Inventory; CA PROP.65: Yes; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1861; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
9002-84-0	Polytetrafluorethylene	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
9002-88-4	Polyethylene homopolymer	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
80-15-9	Cumene hydroperoxide	TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: TAC; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 0543; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No
81-07-2	Saccharin	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1641; NY Part 597: Yes; PA HSL: Yes - B; SC TAP: No; WI Air: No

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112945-52-5 Silica, amorphous treated

TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
25852-47-5	Polyglycol dimethacrylate	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No
plasticizer	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No	NA Polymeric Unsaturated polyester resin
	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No	
13463-67-7	Titanium dioxide	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
	Polytetrafluorethylene	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
9002-88-4	Polyethylene homopolymer	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
		- 1962
80-15-9	Cumene hydroperoxide	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
	Saccharin	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
112945-52-5	Silica, amorphous treated	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes

Regulatory Information: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm. Titanium dioxide (CAS #13463-67-7) and saccharin.

16. OTHER INFORMATION

Revision Date: 05/31/2015

Preparer Name: Crystal Maira

Additional Information: No data available.

Company Policy or Disclaimer: Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.