



## 1. Identification

Product identifier	Soluble Oil
Other means of identification	
Product Code	No. SL2513 (Item# 1007830)
Recommended use	Soluble oil
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
<b>Technical Assistance</b>	800-521-3168
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com
2. Hazard(s) identificatio	n
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None

## Supplemental information None.

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-methylpentane-2,4-diol		107-41-5	1 - 5
polyoxyl 10 oleyl ether		9004-98-2	1 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Material name: Soluble Oil

Skin contact	Wash off with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention if symptoms occur. If ingestion of a large amount does occur, call a poison control center immediately.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	

### 5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Prevent entry into waterways, sewer, basements or confined areas.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

Precautions for safe handlingWear appropriate personal protective equipment. Avoid prolonged or repeated contact with skin.<br/>Avoid prolonged exposure. Use only in well-ventilated areas. When using, do not eat, drink or<br/>smoke. Wash contaminated clothing before reuse. Use appropriate container to avoid<br/>environmental contamination. For product usage instructions, see the product label.Conditions for safe storage,<br/>including any incompatibilitiesKeep away from heat and sources of ignition. Store in a cool, dry place out of direct sunlight. Store<br/>in a well-ventilated place. Keep container tightly closed.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

U.S OSHA			
Components	Туре	Value	
mineral oil	TWA	5 mg/m3	
US. OSHA Table Z-1 Limits for A	Air Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
maleic anhydride (CAS	PEL	1 mg/m3	
108-31-6)			

ACGIH Components	Туре	Value	Form
mineral oil	TWA	5 mg/m3	Inhalable fraction
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
2-methylpentane-2,4-diol (CAS 107-41-5)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
glutaraldehyde (CAS 111-30-8)	Ceiling	0.05 ppm	
maleic anhydride (CAS 108-31-6)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
U.S NIOSH	_		<b>F</b>
Components	Туре	Value	Form
mineral oil	STEL	10 mg/m3	Mist
	TWA	5 mg/m3	Mist
US. NIOSH: Pocket Guide			
Components	Туре	Value	
2-methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	125 mg/m3	
		25 ppm	
glutaraldehyde (CAS 111-30-8)	Ceiling	0.8 mg/m3	
		0.2 ppm	
maleic anhydride (CAS 108-31-6)	TWA	1 mg/m3	
logical limit values	No biological exposure limits noted for	0.25 ppm	
-		•	as used Ventilation rates
propriate engineering htrols	Good general ventilation (typically 10 a should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis	plicable, use process enclosu ain airborne levels below reco	res, local exhaust ventilation, mmended exposure limits. If
ividual protection measures	s, such as personal protective equipme		
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear protective gloves such as: Neop	rene. Nitrile. Latex. Polyvinyl	chloride (PVC).
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
neral hygiene nsiderations	Always observe good personal hygien and before eating, drinking, and/or sm equipment to remove contaminants.		

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Mild petroleum.
Odor threshold	Not available.
рН	9.8 at 5% w/w
Melting point/freezing point	-58 °F (-50 °C) estimated

Frange 250 °F (121.1 °C) Cleveland Open Cup   Flash point 250 °F (121.1 °C) Cleveland Open Cup   Evaporation rate Not available.   Flammability (solid, gas) Not available.   Upper/lower flammability or explosive limits Image: Cleveland Open Cup   Flammability (solid, gas) Not available.   (%) 1.4 % estimated   (%) 1.4 % estimated   (%) 7.1 % estimated   Vapor pressure 0.2 hPa estimated   Vapor density Not available.   Relative density 0.92   Solubility (water) Insoluble.   Partition coefficient (n-octanol/water) Not available.   Ruto-ignition temperature 588.2 °F (309 °C) estimated   Decomposition temperature Not available.	Initial bailing point and bailing	> 212 °F /> 100 °C)
Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limitsFlammability limit - lower1.4 % estimated(%)7.1 % estimatedFlammability limit - upper7.1 % estimated(%)0.2 hPa estimatedVapor pressure0.2 hPa estimated(%)Not available.Solubility (ies)Not available.Solubility (water)Insoluble.Partition coefficientNot available.(n-octanol/water)Se8.2 °F (309 °C) estimatedAuto-ignition temperatureSe8.2 °F (309 °C) estimated	Initial boiling point and boiling range	2 12 F (2 100 C)
Flammability (solid, gas) Not available.   Upper/lower flammability or explosive limits   Flammability limit - lower 1.4 % estimated   (%) 1.4 % estimated   Flammability limit - upper 7.1 % estimated   (%) 0.2 hPa estimated   Vapor pressure 0.2 hPa estimated   Vapor density Not available.   Relative density 0.92   Solubility (water) Insoluble.   Partition coefficient Not available.   (n-octanol/water) 588.2 °F (309 °C) estimated   Decomposition temperature Not available.	Flash point	250 °F (121.1 °C) Cleveland Open Cup
Upper/lower flammability or explosive limits   Flammability limit - lower 1.4 % estimated   (%) 7.1 % estimated   Flammability limit - upper 7.1 % estimated   (%) 0.2 hPa estimated   Vapor pressure 0.2 hPa estimated   Vapor density Not available.   Relative density 0.92   Solubility(ies) Insoluble.   Partition coefficient Not available.   (n-octanol/water) 588.2 °F (309 °C) estimated   Auto-ignition temperature Not available.	Evaporation rate	Not available.
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Relative density 0.92   Solubility(ies) Insoluble.   Solubility (water) Insoluble.   Partition coefficient (n-octanol/water) Not available.   Auto-ignition temperature 588.2 °F (309 °C) estimated   Decomposition temperature Not available.	Vapor pressure	0.2 hPa estimated
Solubility(ies) Insoluble.   Solubility (water) Insoluble.   Partition coefficient (n-octanol/water) Not available.   Auto-ignition temperature 588.2 °F (309 °C) estimated   Decomposition temperature Not available.	Vapor density	Not available.
Solubility (water)Insoluble.Partition coefficient (n-octanol/water)Not available.Auto-ignition temperature588.2 °F (309 °C) estimatedDecomposition temperatureNot available.	Relative density	0.92
Partition coefficient Not available.   (n-octanol/water) S88.2 °F (309 °C) estimated   Auto-ignition temperature S88.2 °F (309 °C) estimated   Decomposition temperature Not available.	Solubility(ies)	
(n-octanol/water)   Auto-ignition temperature 588.2 °F (309 °C) estimated   Decomposition temperature Not available.	Solubility (water)	Insoluble.
Decomposition temperature Not available.	Partition coefficient (n-octanol/water)	Not available.
	Auto-ignition temperature	588.2 °F (309 °C) estimated
Percent volatile 85 % estimated	Decomposition temperature	Not available.
	Percent volatile	85 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

internation on interj reated of	onpooulo		
Inhalation	Prolonged or excessive inhala	tion may cause respiratory tract irritation.	
Skin contact	Prolonged skin contact may cause temporary irritation. Repeated exposure may cause skin dryness or cracking.		
Eye contact	Direct contact with eyes may o	cause temporary irritation.	
Ingestion	Expected to be a low ingestion	n hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.		
Information on toxicological e	ffects		
Acute toxicity			
Components	Species	Test Results	
2-methylpentane-2,4-diol (CAS 1	107-41-5)		
Acute			
Oral			
LD50	Rat	3700 mg/kg	
glutaraldehyde (CAS 111-30-8)			
Acute			
Dermal			
LD50	Rabbit	2560 mg/kg	

Components	Species	Test Results	
Oral			
LD50	Rat	96.1 mg/kg	
nineral oil			
<u>Acute</u>			
<b>Dermal</b> LD50	Rabbit	> 2000 mg/kg	
Inhalation	Ιζαρριζ	> 2000 mg/kg	
Vapor			
LC50	Rat	2180 mg/kg, 4 hours	
Oral			
LD50	Rat	> 5000 mg/kg	
* Estimates for product may b	e based on additional componer	nt data not shown.	
kin corrosion/irritation	Prolonged skin contact may ca	ause temporary irritation.	
erious eye damage/eye rritation	Direct contact with eyes may o	cause temporary irritation.	
Respiratory or skin sensitization	n		
ACGIH sensitization			
GLUTARALDEHYDE, A0 (CAS 111-30-8)	CTIVATED AND INACTIVATED	Dermal sensitization	
		Respiratory sensitization Dermal sensitization	
VAPOR (CAS 108-31-6)	NHALABLE FRACTION AND		
· · · · ·	Respiratory sensitization		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
arcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.10	001-1052)	
••	ogram (NTP) Report on Carcin	ogens	
Not listed.	<b>-</b>		
Reproductive toxicity		o cause reproductive or developmental effects.	
pecific target organ toxicity - ingle exposure	Not classified.		
pecific target organ toxicity - epeated exposure	Not classified.	Not classified.	
spiration hazard	Not available.		
hronic effects	Prolonged inhalation may be h	narmful.	
urther information	This product has no known ad	lverse effect on human health.	
12. Ecological information	on		
Ecotoxicity		s environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environmen	
Components	Species	Test Results	
2-methylpentane-2,4-diol (CA	S 107-41-5)		
Aquatic			
Acute			

Crustacea	EC50	Water flea (Ceriodaphnia reticulata)	2800 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	8000 mg/l, 96 hours

Components		Species	Test Results	
maleic anhydride (CAS 10	8-31-6)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	230 mg/l, 96 hours	
mineral oil				
Aquatic				
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours	
* Estimates for product ma	y be based on	additional component data not shown.		
Persistence and degradabilit	y Not readi	ly biodegradable.		
Bioaccumulative potential	No data a	available.		
Mobility in soil	No data a	available.		
Other adverse effects				
13. Disposal consideration	ations			
Disposal instructions	container	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.		
lazardous waste code	Not regul		5	
Contaminated packaging		Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is		
14. Transport information	lion			
DOT				
Not regulated as dangerou ATA	is goods.			
Not regulated as dangerou	s noods			
MDG	5 goods.			
Not regulated as dangerou	is goods.			
15. Regulatory information	ation			
JS federal regulations		luct is not known to be a "Hazardous Chemical' ication Standard, 29 CFR 1910.1200.	as defined by the OSHA Hazard	
TSCA Section 12(b) Expo	ort Notificatio	n (40 CFR 707, Subpt. D)		
Not regulated. SARA 304 Emergency re	lease notifica	tion		
Not regulated. OSHA Specifically Regul	ated Substan	ces (29 CFR 1910.1001-1052)		
Not regulated.		3 - Toxic Chemical: Listed substance		
maleic anhydride (CA				

CERCLA Hazardous Substance List (40 CFR 302.4)

maleic anhydride (CAS 108-31-6)

**CERCLA Hazardous Substances: Reportable quantity** 

maleic anhydride (CAS 108-31-6)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Listed.

5000 LBS

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

maleic anhydride (CAS 108-31-6)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.			
Food and Drug Administration (FDA)	Not regulated.			
Superfund Amendments and Re	eauthorization Act of 19	986 (SARA)		
Classified hazard categories	Acute toxicity (any rou	· ·		
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
maleic anhydride		108-31-6	1-3	
US state regulations				
•	d Community Dialet to I			
US. New Jersey Worker and		Know Act		
2-methylpentane-2,4-dio glutaraldehyde (CAS 11 maleic anhydride (CAS 1 US. Massachusetts RTK - S	1-30-8) 108-31-6)			
2-methylpentane-2,4-dio glutaraldehyde (CAS 11 maleic anhydride (CAS 1 <b>US. Pennsylvania Worker a</b>	1-30-8) 108-31-6)	o-Know Law		
2-methylpentane-2,4-dio glutaraldehyde (CAS 11 maleic anhydride (CAS 1 <b>US. Rhode Island RTK</b>	l (CAS 107-41-5) 1-30-8)			
2-methylpentane-2,4-dio glutaraldehyde (CAS 11 maleic anhydride (CAS 1	1-30-8)			
California Proposition 65	,			
A WARNING	: Reproductive Harm - v	www.P65Warnings.ca.o	JOV	
	• • • • • • • •			
California Proposition	65 - CRT: Listed date/D	evelopmental toxin		
methanol (CAS 67-5 US. California. Candida subd. (a))		Listed: March er Consumer Products	n 16, 2012 s Regulations (Cal. Code I	Regs, tit. 22, 69502.3,
glutaraldehyde (CAS maleic anhydride (C				
Volatile organic compounds (V EPA	OC) regulations			
VOC content (40 CFR 51.100(s))	8 % (concentrate); 1.6	% (minimum dilution)		
Consumer products (40 CFR 59, Subpt. C)	Not regulated			
State				
Consumer products	This product is regulat use in all 50 states.	ted as a Cutting or Tap	ping Oil (non-aerosol). This	product is compliant for
VOC content (CA)	8 % (concentrate); 1.6	6 % (minimum dilution)		
VOC content (OTC)	8 % (concentrate); 1.6	% (minimum dilution)		
International Inventories		. ,		
	Inventorium			On inventory (males)+
<b>Country(s) or region</b> Australia	Inventory name Australian Inventory o	f Chemical Substances	(AICS)	<b>On inventory (yes/no)*</b> Yes

Country(s) or region	Inventory name On inventor	ory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vos" indicatos that all compo	nents of this product comply with the inventory requirements administered by the governing country	(c)

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

	• • •
Issue date	12-11-2017
Revision date	12-11-2017
Prepared by	Allison Yoon
Version #	02
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
NFPA ratings	
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Revision information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory information: California Prop 65 Regulatory information: US federal regulations