



# Safety Data Sheet

Report Date 23-Jan-17

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## 1. Identification

**Product Name** : SOL-OIL 97  
**Synonyms** : None  
**Product Use** : Soluble Oil for use in water on Citrus  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : Causes mild skin irritation  
**Eye Irritation** : Causes eye irritation  
**Acute Toxicity Oral** : LD50 >5,000 mg/kg (rat)  
**Acute Toxicity Dermal** : LD50 >2,000 mg/kg (rabbit)

**Hazard Categories** : Oral/Dermal Toxicity-5/5; Eye/Skin Irritation-2B/3; Aspiration Hazard-1

**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
Causes eye irritation  
Causes mild skin irritation  
May be fatal if swallowed and enters airways

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Mineral Oil	8042-47-5	97.2
Inert ingredients	Proprietary	2.8

## 4. First Aid Measures

**Eye** : Hold eyelid open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor immediately for treatment advice.

**Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor immediately for treatment advice.

**Inhalation** : Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

**Ingestion** : Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to drink. Do not give anything to an unconscious or convulsing person.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. Do not induce vomiting. This product contains petroleum distillates and may pose an aspiration hazard. Do not induce vomiting.

## 5. Fire Fighting Measures



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- Extinguishing Media** : Use water fog, foam, dry chemical powder or carbon dioxide extinguishing agents. Do not direct solid streams of water into the hot burning liquid.
- Specific Hazards Arising from the Chemical** : Use water spray or fog to cool exposed containers. Closed containers of this material may explode when subjected to heat from surrounding fire. Decomposition products may include carbon dioxide, carbon monoxide and other asphyxiants.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

- Personal Precautions** : Keep unnecessary personnel away. Remove ignition sources. Ensure adequate ventilation.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Do not allow spilled material to runoff and contact soil, waterways, drains and sewers.
- Methods and Materials for Containment and Cleanup** : For small spills, wipe up with noncombustible inert material. Clean surface thoroughly to remove residual contamination. For large spills, stop the flow of material, if able to do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb with clay, sand, earth or vermiculite. Collect and place into containers for proper disposal. Flush spill area with water, absorb, collect and place in suitable containers for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Observe good industrial hygiene practices.
- Conditions for Safe Storage** : Store in tightly closed container. Store away from incompatible materials.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Oil mist, mineral: PEL=5 mg/m<sup>3</sup> (8 hours), TLV=5 mg/m<sup>3</sup> (8 hours, inhalable fraction).
- Appropriate Engineering Controls** : Local exhaust ventilation may be needed when handling or using this product to keep exposure to airborne contaminants below the exposure limit.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear, light yellow liquid; slight odor.
- Flash Point, °F** : 342 Degrees F.
- Boiling Point, °F** : 264 to 436 Degrees C.
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : 0.000011 kPa (20 Deg. C.)
- Vapor Density** : Not available
- Solubility in Water** : Insoluble (water)
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 0.840-0.860
- Evaporation Rate(Butyl Acetate = 1)** : Not available
- Octanol/Water Partition Coefficient** : 2 to >/=6



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pH : 6.8-7.3 (1%)  
Flammable Limits (approximate volume % in air) : No information found  
Auto-ignition Temperature : 650 Degrees F.  
Decomposition temperature : Not available

### 10. Stability and Reactivity

Reactivity : Not reactive  
Chemical Stability : Stable  
Hazardous Decomposition Products : Thermal decomposition products may include carbon dioxide, carbon monoxide and other asphyxiants.  
Hazardous Polymerization : Will not occur  
Conditions to Avoid : Keep away from heat, sparks and flame.  
Incompatible Materials : Do not allow contact with oxidizing materials.

### 11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.  
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit). May be harmful in contact with skin.  
Acute Toxicity Inhalation LC50 : >5 mg/L/4 hours. Not classified as hazardous under 29 CFR 1910.1200 (2012). See Other Hazards.  
Likely Routes of Exposure : Ingestion, skin, inhalation  
Skin Irritation : Causes mild skin irritation.  
Eye Irritation : Causes eye irritation.  
Skin Sensitization : Highly refined base oils showed no evidence of skin sensitization.  
Carcinogenic : Carcinogenic bioassays conducted confirm highly refined base oils are non-carcinogenic.  
Chronic Effects : There is no toxicity associated with highly refined base oils in repeat dose toxicity studies. Not a reproductive toxicant. Not mutagenic or teratogenic.  
Other Hazards : Aspiration Hazard: May be fatal if swallowed and enters airways. Contains petroleum distillates.

### 12. Ecological Information

Ecotoxicity : Product not been tested. Similar paraffinic oils have been tested with the following results: Acute EC50 >100 mg/L, Algae, 72 hours; Acute EC50 >100 mg/L, Daphnia, 48 hours; Acute EC50 >100 mg/L, Fish, 96 hours.  
Persistence and Degradability : Not readily biodegradable. Considered to be inherently biodegradable.  
Bioaccumulative Potential : Constituents of other lubricant base oils show measured or predicted values for log K(OW) from 2 to >=6 and are considered potentially bioaccumulative.  
Mobility in Soil : Not available  
Other Adverse Effects : No known significant effects or critical hazards.

### 13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information



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**UN Proper Shipping Name** : Not regulated by DOT, IATA or IMDG.  
**Transport Hazard Class** : None  
**UN Identification Number** : None  
**Packaging Group** : None  
**Environmental Hazards** : No information found  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : None  
**Freight Classification** : Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

### 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 1      Fire: 1      Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No)** :

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: N  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number** : 5905-294

**FIFRA Signal Word** : Caution

**FIFRA Label Statement** : Keep out of reach of children.

**FIFRA Label Statement** : Harmful if absorbed through skin.

**FIFRA Label Statement** : Avoid contact with eyes, skin or clothing.

**FIFRA Label Statement** : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**FIFRA Label Statement** : No additional label statements.

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### 16. Other Information

**Data of Preparation/Revision** : 23-January-2017