



# MATERIAL SAFETY DATA SHEET

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## Section 1: Product & Company Identification

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**Product Name:** Universal 2-Cycle Oil

**Product Number (s):** SL2261, SL2262

**Product Use:** 2-cycle engine oil

**Manufacturer / Supplier Contact Information:**

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

[www.crc-mexico.com](http://www.crc-mexico.com)

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

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## Section 2: Hazards Identification

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Emergency Overview

As defined by OSHA's Hazard Communication Standard, this product is nonhazardous.

Appearance & Odor: Blue oily liquid, faint petroleum odor

**Potential Health Effects:**

**ACUTE EFFECTS:**

**EYE:** Direct contact may cause irritation and redness.

**SKIN:** Slightly irritating. Repeated or prolonged contact can result in drying of the skin.

**INHALATION:** Oil mist can irritate the airways and lungs.

**INGESTION:** May cause stomach pain or vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

**CHRONIC EFFECTS:** Unknown

**TARGET ORGANS:** Unknown

**Medical Conditions Aggravated by Exposure:** Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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### Section 3: Composition/Information on Ingredients

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| COMPONENT                                    | CAS NUMBER  | % by Wt. |
|--|-------------|----------|
| Solvent-refined heavy naphthenic distillates | 64741-96-4  | 40 – 60  |
| Solvent-dewaxed petroleum oils               | 64742-62-7  | 20 - 40  |
| Stoddard solvent                             | 8052-41-3   | 10 – 20  |
| Small engine oil additives                   | proprietary | 1 – 5    |
| Mineral oil, severely refined                | proprietary | 1 - 5    |

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### Section 4: First Aid Measures

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- Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion: Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

*Note to Physicians:* Treat symptomatically.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** As defined by OSHA, this product is a Class III Combustible Liquid.  
Flash Point: > 151F (COC) Upper Explosive Limit: ND  
Autoignition Temperature: ND Lower Explosive Limit: ND

**Fire and Explosion Data:**

Suitable Extinguishing Media: Foam, dry chemicals, sand, dolomite, carbon dioxide

Products of Combustion: Acrid smoke/fumes and oxides of carbon, sulfur

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Volume and pressure of material increases strongly when heated.

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### Section 6: Accidental Release Measures

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Personal Precautions: Use personal protection recommended in Section 8. Minimize skin contact. Avoid breathing vapors.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

## **Section 7: Handling and Storage**

Handling Procedures: Do not reuse container. Ventilate well and avoid breathing vapors. Do not store or mix with strong oxidizers. Avoid strong heating. Keep away from sparks and open flame. Avoid contact with skin. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store away from sources of ignition, strong acids and oxidizers.

Aerosol Storage Level: NA

## **Section 8: Exposure Controls/Personal Protection**

### **Exposure Guidelines:**

| COMPONENT  | OSHA |      | ACGIH |      | OTHER |        | UNIT              |
|--|------|------|-------|------|-------|--------|-------------------|
|  | TWA  | STEL | TWA   | STEL | TWA   | SOURCE |                   |
| Solvent-refined heavy naphthenic distillates   | 5*   | NE   | 5*    | 10*  | NE    |        | mg/m <sup>3</sup> |
| Solvent-dewaxed petroleum oils   | 5*   | NE   | 5*    | 10*  | NE    |        | mg/m <sup>3</sup> |
| Stoddard solvent   | 500  | NE   | 100   | NE   | NE    |        | ppm               |
| Small engine oil additives   | NE   | NE   | NE    | NE   | NE    |        |                   |
| Mineral oil, severely refined  | 5*   | NE   | 5*    | 10*  | NE    |        | mg/m <sup>3</sup> |
| N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated      * – oil mist |      |      |       |      |       |        |                   |

### **Controls and Protection:**

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

**Section 9: Physical and Chemical Properties**

Physical State: liquid  
 Color: blue  
 Odor: mild petroleum  
 Odor Threshold: ND  
 Specific Gravity: 0.883  
 Initial Boiling Point: > 300°F  
 Freezing Point: ND  
 Vapor Pressure: ND  
 Vapor Density: > 1 (air = 1)  
 Evaporation Rate: slow  
 Solubility: insoluble in water  
 Coefficient of water/oil distribution: ND  
 pH: NA  
 Volatile Organic Compounds: wt %: 14.0                      g/L: 124.0                      lbs./gal: 1.09

**Section 10: Stability and Reactivity**

Stability: Stable  
 Conditions to Avoid: Sources of ignition, heat  
 Incompatible Materials: Strong acids and oxidizers  
 Hazardous Decomposition Products: Oxides of carbon, sulfur  
 Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**Acute Toxicity:**

| <u>Component</u>                             | <u>Oral LD50 (rat)</u> | <u>Dermal LD50 (rabbit)</u> | <u>Inhalation LC50 (rat)</u> |
|--|------------------------|-----------------------------|------------------------------|
| Solvent-refined heavy naphthenic distillates | No data                | No data                     | No data                      |
| Solvent-dewaxed petroleum oils               | No data                | No data                     | No data                      |
| Stoddard solvent                             | > 2000 mg/kg           | > 3160 mg/kg                | 3.6 mg/L                     |
| Small engine oil additives                   | No data                | No data                     | No data                      |
| Mineral oil, severely refined                | No data                | No data                     | No data                      |

**Chronic Toxicity:**

| <u>Component</u>                             | <u>OSHA Carcinogen</u> | <u>IARC Carcinogen</u> | <u>NTP Carcinogen</u> | <u>Irritant</u> | <u>Sensitizer</u> |
|--|------------------------|------------------------|-----------------------|-----------------|-------------------|
| Solvent-refined heavy naphthenic distillates | No                     | No                     | No                    | Unknown         | Unknown           |
| Solvent-dewaxed petroleum oils               | No                     | No                     | No                    | Unknown         | Unknown           |
| Stoddard solvent                             | No                     | No                     | No                    | No              | Unknown           |
| Small engine oil additives                   | No                     | No                     | No                    | Unknown         | Unknown           |
| Mineral oil, severely refined                | No                     | No                     | No                    | Unknown         | Unknown           |

|         |          |                 |
|---------|----------|-----------------|
| E – Eye | S – Skin | R - Respiratory |
|---------|----------|-----------------|

|                               |  |
|-------------------------------|--|
| <u>Reproductive Toxicity:</u> | No information available   |
| <u>Teratogenicity:</u>        | No information available   |
| <u>Mutagenicity:</u>          | No information available   |
| <u>Synergistic Effects:</u>   | No information available   |
| <u>Other:</u>                 | IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The base oils in this product are severely refined and contain < 3% DMSO extractable total polycyclic aromatic compound (PAC) per IP 346. |

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## **Section 12: Ecological Information**

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Ecological studies have not been conducted for this product. The following information is available for components of this product.

|                                 |                          |
|---------------------------------|--------------------------|
| Ecotoxicity:                    | No information available |
| Persistence / Degradability:    | No information available |
| Bioaccumulation / Accumulation: | No information available |
| Mobility in Environment:        | No information available |

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## **Section 13: Disposal Considerations**

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**Waste Classification:** This product is not a RCRA hazardous waste as packaged. (See 40 CFR Part 261.20 – 261.33) Used oil should be collected and handled in accordance with 40 CFR Part 279. Used oil that is mixed with hazardous waste may be subject to regulation as hazardous waste. Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

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## **Section 14: Transport Information**

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|---------------------|---------------|
| US DOT (ground):    | Not Regulated |
| ICAO/IATA (air):    | Not Regulated |
| IMO/IMDG (water):   | Not Regulated |
| Special Provisions: | None          |

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## **Section 15: Regulatory Information**

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### **U.S. Federal Regulations:**

#### **Toxic Substances Control Act (TSCA):**

All ingredients are either listed on the TSCA inventory or are exempt.

#### **Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):**

Reportable Quantities (RQ's) exist for the following ingredients: None

**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.**

#### **Superfund Amendments Reauthorization Act (SARA) Title III:**

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

|                       |    |
|-----------------------|----|
| Fire Hazard           | No |
| Reactive Hazard       | No |
| Release of Pressure   | No |
| Acute Health Hazard   | No |
| Chronic Health Hazard | No |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

**U.S. State Regulations:**

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 8052-41-3  
Pennsylvania: 8052-41-3  
Massachusetts: 8052-41-3  
Rhode Island : 8052-41-3

**Canadian Regulations:**

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B3

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

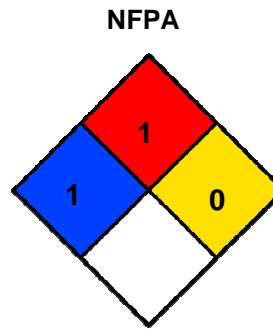
**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

**Section 16: Other Information**

| HMIS® (II)    |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 1 |
| Reactivity:   | 0 |
| PPE:          | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
 CRC #: 720030  
 Revision Date: 11/25/2008

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Service  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 DSL: Domestic Substance List  
 g/L: grams per Liter  
 HMIS: Hazardous Materials Identification System  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 IMDG: International Maritime Dangerous Goods  
 IMO: International Maritime Organization  
 lbs./gal: pounds per gallon  
 LC: Lethal Concentration  
 LD: Lethal Dose

NA: Not Applicable  
 ND: Not Determined  
 NIOSH: National Institute of Occupational Safety & Health  
 NFPA: National Fire Protection Association  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PMCC: Pensky-Martens Closed Cup  
 PPE: Personal Protection Equipment  
 ppm: Parts per Million  
 RoHS: Restriction of Hazardous Substances  
 STEL: Short Term Exposure Limit  
 TCC: Tag Closed Cup  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Information System