



## Material Safety Data Sheet

### 1 - Chemical Product and Company Identification

|  |  |
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| <b>Manufacturer:</b> WD-40 Company<br><b>Address:</b> 1061 Cudahy Place (92110)<br>P.O. Box 80607<br>San Diego, California, USA<br>92138 -0607<br><br><b>Telephone:</b><br><b>Emergency only:</b> 1-888-324-7596 (PROSAR)<br><b>Information:</b> 1-888-324-7596<br><b>Chemical Spills:</b> 1-800-424-9300 (Chemtrec)<br>1-703-527-3887 (International Calls) | <b>Chemical Name:</b> Organic Mixture<br><br><b>Trade Name:</b> 3-IN-ONE 100% Dry to the Touch Dry Lube<br><br><b>Product Use:</b> Lubricant<br><br><b>MSDS Date Of Preparation:</b> 12/6/2012 |
|--|--|

### 2 - Hazards Identification

#### Emergency Overview:

**DANGER!** Extremely Flammable liquid and vapor. Vapor may cause flash fire. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye, skin and respiratory tract irritation. Inhalation of vapors may cause irritation, dizziness and drowsiness. Avoid eye contact. Use only with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

#### Symptoms of Overexposure:

**Inhalation:** High concentrations may cause throat, nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** May cause skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce defatting and possible dermatitis.

**Eye Contact:** Contact may cause moderate eye irritation. May cause redness, stinging, swelling and tearing.

**Ingestion:** This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

#### Suspected Cancer Agent:

Yes No X

### 3 - Composition/Information on Ingredients

| Ingredient                | CAS #  | Weight Percent |
|---------------------------|--|----------------|
| Heptane                   | 64742-89-8<br>64742-49-0<br>68410-97-9<br>142-82-5 | 70-90          |
| Naphtha (petroleum)       | 64741-66-8<br>64742-47-8                           | 5-10           |
| Cyclohexane               | 110-82-7   | <5             |
| Calcium sulfonate         | Proprietary  | <5             |
| Non-Hazardous Ingredients | Mixture  | <10            |

#### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water for 15 minutes. Remove contact lenses if present after the first 5 minutes and continue flushing. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

#### 5 – Fire Fighting Measures

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. Cool fire exposed containers with water.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.

**Unusual Fire and Explosion Hazards:** Extremely Flammable liquid and vapor. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

#### 6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 – Handling and Storage

**Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

**Storage:** Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class IB Liquid.

#### 8 – Exposure Controls/Personal Protection

| Chemical                  | Occupational Exposure Limits                                     |
|---------------------------|--|
| Heptane                   | 500 ppm TWA OSHA PEL<br>500 ppm Skin TWA, 400 ppm STEL ACGIH TLV |
| Naphtha (petroleum)       | 1200 mg/m <sup>3</sup> TWA (manufacturer recommended)            |
| Cyclohexane               | 300 ppm TWA OSHA PEL<br>100 ppm TWA ACGIH TLV                    |
| Calcium sulfonate         | None Established   |
| Non-Hazardous Ingredients | None Established   |

##### The Following Controls are Recommended for Normal Consumer Use of this Product

**Engineering Controls:** Use in a well-ventilated area.

**Personal Protection:**

**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

##### For Bulk Processing or Workplace Use the Following Controls are Recommended

**Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:**

**Eye Protection:** Safety goggles recommended where eye contact is possible.

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

**Work/Hygiene Practices:** Wash with soap and water after handling.

### 9 – Physical and Chemical Properties

|  |                  |                                     |                              |
|--|------------------|-------------------------------------|------------------------------|
| Boiling Point:                         | Not Determined   | Specific Gravity:                   | Not Determined               |
| Solubility in Water:                   | Insoluble        | pH:                                 | Not Applicable               |
| Vapor Pressure:                        | 45 mmHg @20°C    | Vapor Density:                      | 3-4 (air=1)                  |
| Percent Volatile:                      | >90%             | VOC:                                | 87.9%                        |
| Coefficient of Water/Oil Distribution: | Not Determined   | Appearance/Odor                     | Light amber liquid/mild odor |
| Flash Point:                           | 10°F (-12°C) TCC | Flammable Limits: (Solvent Portion) | LEL: 0.6% UEL: 7.0%          |
| Pour Point:                            | <-72°C           | Kinematic Viscosity:                | 0.63 cSt @40°C               |

### 10 – Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition.

**Incompatibilities:** Strong oxidizers, acids and bases.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

### 11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard. None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

### 12 – Ecological Information

No data is currently available. Heptane and Naphtha are very toxic to aquatic organisms with long-lasting effects. Avoid release to the environment.

### 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

### 14 – Transportation Information

DOT Surface Shipping Description: Consumer Commodity, ORM-D

After 1/1/2014 UN1268, Petroleum Distillates, n.o.s., 3, II Ltd. Qty (Note: Shipping Papers are not required for Limited

Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

IMDG Shipping Description: UN1268, Petroleum Distillates, n.o.s, 3, II LTD QTY, MARINE POLLUTANT

ICAO Shipping Description: UN1268, Petroleum Distillates, n.o.s, 3, II NOTE: WD-40 does not test packaging to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our products be transported by air.

## 15 – Regulatory Information

### U.S. Federal Regulations:

**CERCLA 103 Reportable Quantity:** This product has an RQ of 20,000 based on the RQ for cyclohexane of 1000 lbs. In addition, oil spills are reportable to the National Response Center under the Clean Water Act. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

### SARA TITLE III:

**Hazard Category For Section 311/312:** Acute Health, Fire Hazard

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: Cyclohexane <5%

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product does not contain chemicals regulated under California Proposition 65.

**VOC Regulations:** This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

**Canadian Environmental Protection Act:** One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

**Canadian WHMIS Classification:** Class B-2, Class D-2-B (Toxic material causing other toxic effects)  
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

## 16 – Other Information:

### HMIS Hazard Rating:

**Health – 1 (slight hazard), Fire Hazard – 3 (Serious hazard), Physical Hazard – 0 (minimal hazard)**

Revision Date: December 2012

Supercedes: New MSDS

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

SIGNATURE: \_\_\_\_\_ ASM

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