**1 - Identification**

**Trade Name: WD-40 Specialist® Contact Cleaner – Quick Drying**

**Chemical Name: Organic Mixture**

**Product Use: Cleaner, Lubricant**

**Restrictions on Use: None identified**

**SDS Date Of Preparation: November 10, 2021**

**2 – Hazards Identification**

**GHS Classification:**
Flammable Aerosol Category 1
Aspiration Toxicity Category 1
Skin Irritant Category 2
Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Aquatic Acute Toxicity Category 1
Aquatic Chronic Toxicity Category 1

This product is a consumer product and is labeled in accordance with local regulations for consumer chemicals. The actual container label may not include the label elements below. The labeling below applies to industrial/professional products.

**Label Elements:**

**DANGER**!
H222- Extremely Flammable Aerosol.
H229 Pressurized container: may burst if heated.
H304- May be fatal if swallowed and enters airways.
H315- Causes skin irritation.
H336- May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

**Prevention**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261- Avoid breathing vapors or mists.
P264- Wash thoroughly after handling.
P271- Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.

P280- Wear protective gloves.

**Response**

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or physician.
P331- Do NOT induce vomiting.
P302+352- IF ON SKIN: Wash with plenty of soap and water.
P332+P313- If skin irritation occurs: Get medical attention.
P362+P364- Take off contaminated clothing and wash before reuse.
P304+P340- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312- Call a POISON CENTER or physician if you feel unwell.
P391 Collect spillage.

**Storage**

P405- Store locked up.
P410+P412+P403- Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

**Disposal**

P501- Dispose of contents and container in accordance with local and national regulations.

**3 - Composition/Information on Ingredients**

| Ingredient | CAS # | Weight Percent | GHS Classification |
|---|---|---|---|
| Heptane | 64742-49-0<br>64742-89-8<br>142-82-5 | 70-80% | Flammable Liquid Category 2<br>Aspiration Toxicity Category 1<br>Skin Irritant Category 2<br>Specific Target Organ Toxicity Single Exposure Category 3<br>(nervous system effects)<br>Aquatic Acute Toxicity Category 1<br>Aquatic Chronic Toxicity Category 1 |
| Isoparaffinic Hydrocarbon | 64741-66-8 | 10-20% | Flammable Liquid, Category 2<br>Aspiration Toxicity Category 1 |
| 2,2,4-Trimethylpentane (component of Isoparaffinic hydrocarbon) | 540-84-1 | <20% | Aspiration Toxicity Category 1<br>Flammable Liquid Category 2<br>Skin Irritant Category 2<br>Specific Target Organ Toxicity Single Exposure Category 3<br>(nervous system effects)<br>Aquatic Acute Toxicity Category 1<br>Aquatic Chronic Toxicity Category 1 |
| Carbon Dioxide | 124-38-9 | 1-5% | Simple Asphyxiant<br>Gas Under Pressure-Compressed Gas |

Note: The exact percentages are a trade secret.

**4 – First Aid Measures**

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician or poison control center immediately.
**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. 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.
**Signs and Symptoms of Exposure:** Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye and respiratory irritation. Inhalation may cause coughing, headache, and dizziness. Skin contact may cause drying of the skin.

**Indication of Immediate Medical Attention/Special Treatment Needed:** Immediate medical attention is needed for ingestion.

**5 – Fire Fighting Measures**

**Suitable (and unsuitable) 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.
**Specific Hazards Arising from the Chemical:** Contents under pressure. Extremely flammable aerosol. Extremely flammable liquid and vapor. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon, smoke fumes, unburned hydrocarbons and small amounts of hydrogen fluoride and carbonyl fluoride. A vapor and air mixture can create an explosion hazard in confined spaces.
**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

**6 – Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.
**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. 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**

**Precautions for Safe 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. Unplug electrical tools, motors, and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

**8 – Exposure Controls/Personal Protection**

| **Chemical** | Occupational Exposure Limits |
|---|---|
| Heptane | 400 ppm TWA, 500 ppm STEL Mexico OEL<br>400 ppm TWA, 500 ppm STEL ACGIH TLV |
| Isoparaffinic Hydrocarbon | 1400 mg/m3 TWA Supplier Recommended (total hydrocarbon) |
| 2,2,4-Trimethylpentane (as octane, all isomers) | 300 ppm TWA, 375 ppm STEL Mexico OEL<br>300 ppm TWA ACGIH TLV |
| Carbon Dioxide | 5000 ppm TWA, 15000 ppm STEL Mexico OEL<br>5000 ppm TWA, 30000 ppm STEL ACGIH TLV |

**The Following Controls are Recommended for Normal Consumer Use of this Product**
**Appropriate Engineering Controls:** Use in a well-ventilated area.
**Personal Protection:**
**Eye Protection:** Avoid eye contact. Always spray away from your face.
**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**
**Appropriate 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 local regulations and good Industrial Hygiene practice.
**Work/Hygiene Practices:** Wash with soap and water after handling.

**9 – Physical and Chemical Properties**

| | | | |
|---|---|---|---|
| Appearance: | Clear liquid | Flammable Limits: | LEL: 0.9% UEL: 9.5% |
| Odor: | Petroleum odor | Vapor Pressure: | 40-50 psi @ 21.1°C (70°F) |
| Odor Threshold: | Not established | Vapor Density: | Greater than 1 (air=1) |
| pH: | Not Applicable | Relative Density: | 0.697 @ 21.1°C (70°F) |
| Melting/Freezing Point: | Not established | Solubilities: | Insoluble in water |
| Boiling Point/Range: | 90-104°C (194-219°F) | Partition Coefficient; n-octanol/water: | Not established |
| Flash Point: | 16°F Closed Cup | Autoignition Temperature: | Not established |
| Evaporation Rate: | Not established | Decomposition Temperature: | Not established |
| Flammability (solid, gas): | Flammable Aerosol | Viscosity: | Not established |
| VOC: | 91-95% | Pour Point: | Not established |

**10 – Stability and Reactivity**

**Reactivity:** Not reactive under normal conditions
**Chemical Stability:** Stable
**Possibility of Hazardous Reactions:** May react with strong oxidizers generating heat.
**Conditions to Avoid:** Avoid heat, sparks, flames, and other sources of ignition. Do not puncture or incinerate containers.
**Incompatible Materials:** Strong oxidizing agents.
**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide, smoke fumes, unburned hydrocarbons.

**11 – Toxicological Information**

**Symptoms of Overexposure:**
**Inhalation:** Mist or vapor can irritate the throat and lungs. High concentrations may cause 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 be irritating to eyes. 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.
**Chronic Effects:** Prolonged or repeated skin contact may defeat the skin resulting in irritation and dermatitis.
**Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.
**Reproductive Toxicity**: None of the components is considered a reproductive hazard.

**Numerical Measures of Toxicity**:

The oral toxicity of this product is estimated to be greater than 8,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

**12 – Ecological Information**

**Ecotoxicity:** Heptane: 96 hr LL50 Rainbow trout – 5.738 mg/L; 48 hr EC50 Daphnia magna – 0.64 mg/L, 72 hr NOELR Pseudokirchneriella subcapitata -0.97 mg/L, 21 days NOEC Daphnia magna- 0.17 mg/L, 21 days LOEC Daphnia magna- 0.32 mg/L
Petroleum Solvent: No ecotoxicity data available. Ingredient is expected to be toxic to the aquatic environment with long-term adverse effects.

This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

**Persistence and Degradability:** Components are not readily biodegradable.
**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients.
**Mobility in Soil:** No data available
**Other Adverse Effects:** None known

**13 - Disposal Considerations**

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

**14 – Transportation Information**

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 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: UN1950, Aerosols, 2.1, LTD QTY
ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

*Note: Inner packages with less than 5 liters of liquid/ 5 kg of solid are exempt from Marine Pollutant per IMDG Code 2.10.2.7 and ICAO Special Provision A197.

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

**15 – Regulatory Information**

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

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

**16 – Other Information:**

**HMIS Hazard Rating:**
**Health – 2 (moderate hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)**

Revision Date: November 10,2021 Supersedes: April 5, 2019

Revision Summary: Updated Section 2, 3, 8, 12, and 15.

Prepared by: IHSC, LLC. Milford, CT, USA
Reviewed by: I. Kowalski Regulatory Affairs Department

1064400/No.0177002