



Safety Data Sheet

1 - Identification

Trade Name: WD-40 Bike® All-Conditions Chain Lube	Manufacturer: WD-40 Company
Product Use: Bike Chain Lubricant	Address: 9715 Businesspark Avenue San Diego, California, USA 92131
Restrictions on Use: None identified	Telephone:
SDS Date Of Preparation: April 7, 2021	Emergency: 1-888-324-7596
	Information: 1-888-324-7596
	Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)

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	64742-49-0 142-82-5	70-80%	Flammable Liquid Category 2 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
Propane Propellant	74-98-6	10-20%	Flammable Gas Category 1 Gas Under Pressure, Compressed Gas
Petroleum Solvent	64741-66-8 64742-47-8	5-10%	Flammable Liquid, Category 2 Aspiration Toxicity Category 1
Mineral Oil	Proprietary	1-5%	Not Hazardous

Note: The specific chemical identities and 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 400 ppm TWA, 500 ppm STEL ACGIH TLV
Propane Propellant	None Established
Petroleum Solvent	1400 mg/m3 TWA Supplier Recommended (total hydrocarbon)
Mineral Oil	5 mg/m3 TWA, 10 mg/m3 STEL Mexico OEL 5 mg/m3 TWA (inhalable) 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:	Pleasant odor	Vapor Pressure:	40-50 psi @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.72
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	90-140°C (194-284°F)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	-34°C (<-29.2°F) Tag Closed Cup	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	89.2%	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 and small amounts of hydrogen fluoride and carbonyl fluoride.

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:

Acute Toxicity Estimates: Oral >2,000 mg/kg; Dermal > 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: April 7, 2021

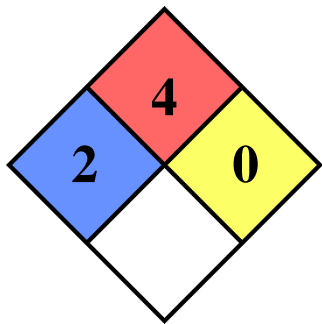
Supersedes: August 27, 2018

Revision Summary: Updated Section 2, 3, 8, 12, 15, and 16.

Prepared by: IHSC, LLC. Milford, CT, USA

Reviewed by: I. Kowalski

Regulatory Affairs Department



1097200/No.0164202