Safety Data Sheet

1 - Identification

Product Name: WD-40 Specialist® Motorcycle Chain Wax **Product Use: Chain wax** **Restrictions on Use: None identified** **SDS Date Of Preparation: 4/14/15**	**Manufacturer: WD-40 Company** **Address: 1061 Cudahy Place (92110)** **P.O. Box 80607** **San Diego, California, USA** **92138 –0607** **Telephone:** **Emergency only: 1-888-324-7596 (PROSAR)** **Information: 1-888-324-7596** **Chemical Spills: 1-800-424-9300 (Chemtrec)** **1-703-527-3887 (International Calls)**

2 – Hazards Identification

Hazcom 2012/GHS Classification:
Flammable Aerosol Category 1
Gas Under Pressure: Liquefied Gas
Aspiration Toxicity Category 1
Skin Irritation Category 2
Skin Sensitization Category 1
Eye Irritant Category 2A
Reproductive Toxicity Category 2
Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Specific Target Organ Toxicity Repeat Exposure Category 2

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:

DANGER!
Extremely Flammable Aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to nervous system through prolonged or repeated exposure.

Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, hot surfaces – No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.

Do not breathe vapors or mists.
Contaminated work clothing should not be allowed out of the workplace.
Wash thoroughly with soap and water after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection.

Response

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
IF exposed or concerned: Get medical advice.

Storage

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

Disposal

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

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
n-Hexane	110-54-3	20-30%	Flammable Liquid Category 2 Aspiration Toxicity Category 1 Skin Irritation Category 2 Reproductive Toxicity Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects) Specific Target Organ Toxicity Repeat Exposure Category 2
Acetone	67-64-1	20-30%	Flammable Liquid Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Liquefied Petroleum Gas (Propane, Isobutane)	68476-86-8	20-30%	Flammable Gas Category 1 Gas Under Pressure, Liquefied Gas
Residual oils, petroleum, solvent refined	64742-01-4	<10%	Not Hazardous
Stoddard Solvent	8052-41-3	<10%	Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Solvent Naphtha Aliphatic	64742-89-8	<5%	Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Additive	Proprietary	<0.5%	Skin Sensitization Category 1

Note: The exact percentages are a trade secret.

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: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
Skin Contact: Wash with soap and water for several minutes. Remove contaminated clothing and wash before reuse. 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: May cause eye and skin irritation. May cause skin sensitization. Inhalation may cause drowsiness, dizziness and other nervous system effects. Harmful or fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. N-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur. Prolonged exposure may cause reproductive harm and may damage the nervous system.
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: Extremely flammable aerosol. Highly flammable liquid and vapor. Contents under pressure. Keep away from ignition source and open fire. 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. A vapor and air mixture can create an explosion hazard in confined spaces. Combustion will produce oxides of carbon, nitrogen, sulfur, and various hydrocarbons.
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 and 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
n-Hexane	50 ppm TWA ACGIH TLV (skin) 500 ppm TWA OSHA PEL
Acetone	250 ppm TWA, 500 ppm STEL ACGIH TLV

	1000 ppm TWA OSHA PEL
Propane	1000 ppm TWA OSHA PEL
Isobutane	1000 ppm STEL ACGIH TLV
Residual oils, petroleum, solvent refined	5 mg/m3 TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m3 TWA OSHA PEL (as oil mist, mineral)
Stoddard Solvent	100 ppm TWA ACGIH TLV 500 ppm TWA OSHA PEL
Solvent Naphtha Aliphatic	5 mg/m3 TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m3 TWA OSHA PEL (as oil mist, mineral)
Additive	None Established

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 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

Appearance:	Clear liquid	Flammable Limits: (Solvent Portion)	LEL: 1.2% UEL: 13.0%
Odor:	Mild odor	Vapor Pressure:	153 mmHg @ 77°F (25°C) (n-Hexane)
Odor Threshold:	Not established	Vapor Density:	Not established
pH:	Not applicable	Relative Density:	Not established
Melting/Freezing Point:	Not established	Solubilities:	Partially soluble in water
Boiling Point/Range:	132.8°F (56°C) (Acetone)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	-14.8°F (-26°C) (n-Hexane)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	50%	Pour Point:	Not established

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions
Chemical Stability: Stable
Possibility of Hazardous Reactions: Acetone reacts violently with chloroform in the presence of bases.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Strong oxidizers, acids, peroxides, and reducing agents.
Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon, nitrogen, sulfur, and various 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. May cause an allergic skin reaction (sensitization).
Eye Contact: Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. The liquid contents are an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis.
Chronic Effects: Prolonged overexposure may cause nervous system damage. n-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur
Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.
Reproductive Toxicity: Prolonged exposure to n-hexane has resulted in decreased sperm count and degenerative changes in the testes of rats but not mice.

Numerical Measures of Toxicity:
n-Hexane: Oral rat LD50: 16,000 mg/kg, Inhalation rat LC50: >31.86 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg
Acetone: Oral rat LD50: 5,800 mg/kg, Inhalation rat LC50: 120 mg/L, Dermal rabbit LD50: 20,000 mg/kg
Liquefied Petroleum Gas: No toxicity data is available
Residual oils, petroleum, solvent refined: Oral rat LD50: >5,000 mg/kg, Inhalation rat LC50: 2.18 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg
Stoddard Solvent: No toxicity data is available
Solvent Naphtha Aliphatic: Oral rat LD50: >5,000 mg/kg, Inhalation rat LC50: >5.61 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg
Additive: Oral rat LD50: >5,000 mg/kg, Dermal rabbit LD50: >2,000 mg/kg

12 – Ecological Information

Ecotoxicity:
n-Hexane: 96 hr LC50 Fathead minnow- 2.5 mg/L, 48 hr EC50 Daphna magna- 2.1 mg/L, 72 hr EbL50 Green algae- 26 mg/L
Additive: 96 hr LC50 Fish- 0.64 mg/L, 48 hr EC50 Daphnia- 0.52 mg/L, 96 hrs NOEC Fish – 0.047 mg/L, 48 hr NOEC Daphnia- 0.32 mg/L

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

Persistence and Degradability: n-Hexane: Readily biodegradable-83% in 28 days. Additive: Not readily biodegradable- 45% in 28 days.
Bioaccumulative Potential: There is a potential for bioaccumulation.
Mobility in Soil: No data available
Other Adverse Effects: None known

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. Do not puncture or incinerate containers, even empty. Dispose in accordance with 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, Marine Pollutant (Hexane)
ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 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

U.S. Federal Regulations:
CERCLA 103 Reportable Quantity: Releases of this product in excess of the reportable quantity of 16,666 pounds based on the RQ for n-hexane of 5,000 lbs present at less than 30% must be reported to the National Response Center. 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, Chronic Health, Fire Hazard, Sudden Release of Pressure
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: n-Hexane 110-54-3 20-30%

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
VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.
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.

16 – Other Information

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

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