Material Safety Data Sheet

1 - Chemical Product and Company Identification

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 (PROZAR)** **Information: 1-888-324-7596** **Chemical Spills: 1-800-424-9300 (Chemtrec)** **1-703-527-3887 (International Calls)**	**Chemical Name: Organic Mixture** **Trade Name: WD-40 SPECIALIST FAST DRYING CONTACT CLEANER** **Product Use: Consumer product – home maintenance.** **MSDS Date Of Preparation: 3/7/16**

2 – Hazards Identification

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

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 and dizziness.
H411 Toxic to aquatic life with long lasting effects.
Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing vapors or spray.
P264 Wash thoroughly with soap and water 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 + P352 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 it 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 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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
Hexane Isomers (includes 2-methylpentane, 3-methylpentane, 2,2-dimethylbutane and 2,3-dimethylbutane)	92112-69-1	>90%	Flammable Liquid Category 2 Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects) Aquatic Chronic Category 2 Aquatic Acute Category 2
n-Pentane	109-66-0	<10%	Flammable Liquid Category 1 Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects) Aquatic Chronic Category 2 Aquatic Acute Category 2
Carbon Dioxide	124-38-9	1-4	Not Hazardous

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 for at least 15 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.
Most Important Symptoms (acute and delayed): May cause eye and skin irritation. Inhalation may cause drowsiness, dizziness and other nervous system effects. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage.
Indication of Immediate Medical Attention or Special Treatment: Immediate medical attention is required for ingestion.

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.
Special Fire Fighting Procedures: 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.

Unusual Fire and Explosion Hazards: Extremely flammable aerosol. 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.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).
Environmental Precautions: Report spills to authorities as required.
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, including any incompatibilities: Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Other Hexanes	500 ppm TWA, 1000 ppm STEL ACGIH TLV
n-Pentane	1000 ppm TWA (ACGIH TLV)
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV 5000 ppm TWA OSHA PEL

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. 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
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 an approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.
Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Boiling Point:	63-69°C	Specific Gravity:	0.678 @ 15.6°C
Solubility in Water:	Insoluble	pH:	Not Applicable
Vapor Pressure:	23 kPa @ 25°C (2-methylpentane)	Vapor Density:	~3
Percent Volatile:	100%	VOC:	96-99%
Coefficient of Water/Oil Distribution:	Not Determined	Appearance/Odor	Clear liquid/strong petroleum odor
Flash Point:	< -28°C (isohexane)	Flammability Limits:	Not determined

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions.
Chemical Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.
Incompatible Materials: Strong oxidizing and reducing agents.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

Symptoms of Overexposure:
Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, loss of coordination and nausea. Intentional abuse may be harmful or fatal.
Skin Contact: Causes skin irritation. Prolonged and/or repeated contact may produce drying and defatting with possible dermatitis.
Eye Contact: Contact may be mildly irritating to eyes. May cause redness and tearing.
Ingestion: This product has low oral toxicity. 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: None known.
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:
Yes No X
The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. It is an aspiration hazard.
None of the components of this product is listed as a carcinogen or suspected carcinogen.

12 – Ecological Information

Ecotoxicity: Isohexane is classified as toxic to aquatic life with long lasting effects.
Persistence and Degradability: Isohexane is expected to be inherently biodegradable in aquatic systems, however, it is expected to rapidly evaporate from water sources into the atmosphere where it will be degraded by photochemical reaction.
Bioaccumulative Potential: Minimal bioaccumulation is expected.
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 flammable waste. 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: 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

China Regulations on the Control over Safety of Dangerous Chemicals: This product matches this regulation. All ingredients in this product has listed in IECSC (Inventory of Existing Chemical Substances in China 2010)
Korea: All of the components of this product are listed on the Korean chemical inventory.
Philippines: All of the components of this product are listed on the PICCS inventory.
Japan: All of the components of this product are listed on the Japan chemical inventory.

16 – Other Information:

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

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