Safety Data Sheet



1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company **Address: 9715 BusinessPark Ave** **San Diego, CA , USA** **Post code: 92131** **Telephone: +1-800-448-9340** **+1-858-251-5600** **24 Hour Emergency Phone Number:** **1-888-324-7596 (PROSAR)** **Chemical Spills:** **1-800-424-9300 (Chemtrec)** **1-703-527-3887 (International Calls)**	**Chemical Name: 1,1-Difluoroethane** **Trade Name: WD-40 Specialist Air Duster** **Product Use:** To keep workshops, vehicles, electronics or households clear of dust and other materials. **SDS Date Of Preparation: Nov 27, 2023**

2 – Hazards Identification

GHS Classification:
Flammable Aerosol Category 1



DANGER!
H222 Extremely Flammable Aerosol.
H229 Pressurized container: may burst if heated.
Prevention
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
Storage
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	GHS Classification
1,1- Difluoroethane	75-37-6	>60%	Flammable Gas Category 1 Gas Under Pressure, Liquefied Gas

4 – First Aid Measures

Ingestion (Swallowed): Do not induce vomiting. Call a physician, poison control center, or the WD-40 Safety Hotline at 1-888-324-7596. Rinse mouth with water and give one eight-ounce glass of water to drink if the patient if conscious and responsive. Never give anything by mouth to an unconscious person.
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: No first aid should be required. If irritation develops, rinse thoroughly with water. If irritation persists, get medical attention.
Inhalation (Breathing): If irritation develops, discontinue use and move to fresh air. Get medical attention if irritation persists.
Most Important Symptoms (acute and delayed): May cause mild eye irritation. May cause skin dryness on prolonged contact. Inhalation may cause drowsiness, dizziness and other nervous system effects.

Indication of Immediate Medical Attention or Special Treatment: Immediate medical attention is not required.

5 – Fire Fighting Measures

Extinguishing Media: Use water spray, water fog, dry chemical, carbon dioxide.
Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Use shielding to protect against bursting containers. Cool fire-exposed containers with water.
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. Thermal decomposition will release hydrogen fluoride, carbon monoxide and phosgene.

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.

7 – Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Avoid breathing vapors or aerosols. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. 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: Store in a cool, well-ventilated area, away from oxidizers and other incompatible materials. Protect from physical damage. Do not store in direct sunlight, near open flames or above temperatures greater than 50°C. U.F.C (NFPA 30B) Level 1 Aerosol.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
1,1 Difluoroethane	1000 ppm TWA AIHA WEEL

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: No special protection is required for normal use. For sensitive skin or prolonged use, wear rubber gloves.
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 if needed to avoid prolonged skin contact.

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: Eye wash facilities should be available. Wash hands after handling.

9 – Physical and Chemical Properties

Appearance:	Clear, colorless gas in an aerosol can	Flammable Limits:	LEL: 3.9% UEL: 16.9%
Odor:	Slight ethereal odor	Vapor Pressure:	87 psi at 77°F (25°C)
Odor Threshold:	Not established	Vapor Density:	2.4 at 77°F (25°C)
pH:	Not established	Relative Density:	0.90 g/cc at 77°F (25°C)
Melting/Freezing Point:	Not established	Solubilities:	Partly miscible in water
Boiling Point/Range:	-25°C (-13°F)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	<-50°C (<-58°F)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	0%	Pour Point:	Not established

10 – Stability and Reactivity

Reactivity: Non-reactive
Chemical Stability: Stable under normal storage conditions.
Possibility of Hazardous Reactions: Polymerization will not occur.
Conditions to Avoid: Avoid extreme heat, flames and other sources of ignition.
Incompatible Materials: Strong oxidants, epoxides, reducing agents, alkali or alkaline earth metals-powdered Aluminum, Zinc, etc.
Hazardous Decomposition Products: Hydrogen fluoride, carbon monoxide and phosgene.

11 – Toxicological Information

Symptoms of Overexposure:
Inhalation: 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: Prolonged and/or repeated contact may produce mild irritation and dryness.
Eye Contact: Direct contact with eyes may cause mild irritation with redness and tearing.
Ingestion: Swallowing is an unlikely route of exposure for an aerosol product. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects.
Chronic Effects: Repeated inhalation of high levels of 1, 1- Difluoroethane can cause increased urinary fluoride, reduced kidney weight, and reversible kidney changes. Based on an independent peer review the revisable kidney changes are considered artifacts of the tissue and slide processing and not a compound related effect.

Medical Conditions Aggravated by Exposure: Preexisting respiratory conditions may be aggravated by exposure.
Suspected Cancer Agent:
Yes No X

No data is available for the product as a whole. The following information is available for the individual components:
1, 1- Difluoroethane: Inhalation rat LC50: 383,000 ppm /4hr.

None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

12 – Ecological Information

Ecotoxicity: No data is currently available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
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: 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

U.S. Federal Regulations:
CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. 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: 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: None
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.

International Information:

China Regulations on the Control over Safety of Dangerous Chemicals: All ingredients in this product are listed in IECSC (Inventory of Existing Chemical Substances in China 2010).
Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS inventory.
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 – 1 (slight hazard), Fire Hazard – 2 (moderate hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: Nov 27, 2023 Supersedes: June 12, 2020
Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA