



Safety Data Sheet

1 – Product Identifier & Identity for the Chemical

Manufacturer: WD-40 Company Australia Pty Ltd Address: 41 Rawson Street (Level 2, Suite 23) Epping NSW, 2121, Australia Telephone: Information: +61 2 9868 2200 Emergency only: 1800 024 973 Poisons Information Centre: Australia: 13 11 26 New Zealand: 0800 764 766 New Zealand Contact Details: Name: Eproducts New Zealand Limited Address: 7D Orbit Drive Albany New Zealand Telephone: Information: 09 916 6750	Product Name: 3 In One Professional Air Duster Chemical Name: 1,1-Difluoroethane Product Use: To keep workshops, vehicles, electronics or households clear of dust and other materials. Restriction on Use: None Identified SDS Date Of Preparation: 27 April 2015
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2 – Hazards Identification

Classification of the Hazardous Chemical (in accordance with WHS Regulation)

Health	Environmental	Physical
Not Hazardous	Not Hazardous	Flammable Aerosol Category 1 Gas Under Pressure: Liquefied Gas

Label Elements



Danger!

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode 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 Pressurized container: Do not pierce or burn, even after use.

Storage

P410+P412+P403 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Store in a well-ventilated place.

Other Hazards that do not Result in Classification: None known.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	Substance Classification
1,1- Difluoroethane	75-37-6	>60%	Flam. Gas Cat 1 (H220) Press. Gas (H280)

See Section 16 for full text of GHS Classification and H phrases

4 – First Aid Measures

Ingestion (Swallowed): Rinse out mouth and give sips of water. Do not induce vomiting unless directed to do so by medical personnel. Call a Poisons Information Center (phone 13 11 26 from anywhere in Australia or 0800 764 766 in New Zealand).

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: 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 and Special Treatment, if Needed: Immediate medical attention is not required.

5 – Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, water fog, dry chemical, carbon dioxide.

Specific Hazards Arising from the Chemical: 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.

Special Protective Equipment and Precautions for Fire-Fighters: 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.

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.

8 – Exposure Controls /Personal Protection

Chemical	Occupational Exposure Limits	Biological Limit Value
1,1 Difluoroethane	1000 ppm TWA AIHA WEEL	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 product 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

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 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.

Other Protective Equipment: None required.

9 – Physical and Chemical Properties

Appearance and Odor:	Clear, colorless gas in an aerosol can with slight ethereal odor	Partition Coefficient of n-octanol/water:	Not determined
Odor Threshold:	Not determined	Auto-ignition temperature:	849.2°F (454°C)
pH:	Not applicable	Decomposition Temperature:	Not determined
Melting/Freezing Point:	-178.6°F (-117°C)	Viscosity:	Not determined
Boiling Point / Range:	-13°F (-25°C)	Specific Heat Value:	Not determined
Flash Point:	<-58°F (<-50°C)	Particle Size:	Not applicable
Evaporation Rate (Butyl Acetate = 1):	Not determined	VOC:	0%
Flammability (solid, gas):	Not applicable	Percent Volatile:	100%
Flammable Limits:	LEL: 3.9% UEL: 16.9%	Saturated Vapor Concentration:	Not determined
Vapor Pressure:	87 psia at 77°F (25°C)	Release of invisible flammable vapors and gases:	Yes
Vapor Density (air = 1):	2.4 at 77°F (25°C)	Aerosol Protection Level (NFPA 30B):	1
Relative Density (Water = 1):	0.90 g/cc at 77°F (25°C)	Solubility:	Partly miscible

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

Health Hazards:

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.

Eye Contact: Direct contact with eyes may cause mild irritation with redness and tearing.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and dryness.

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.

Chronic Exposure: 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 reversible 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.

Acute Toxicity Values:

1,1- Difluoroethane: Inhalation rat LC50: 383,000 ppm /4hr.

Skin Corrosion/Irritation: No data available for mixture. This product is not expected to cause skin irritation.

Serious Eye Damage/Irritation: No data available for mixture. This product is not expected to cause eye irritation.

Respiratory or Skin Sensitization: This product is not expected to cause sensitization.

Germ Cell Mutagenicity: None of the components have been found to be mutagenic.

Carcinogenicity: None of the components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, US OSHA or the EU CLP.

Reproductive Toxicity: None of the components are known to cause adverse reproductive effects.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeated Exposure: No data available.

Aspiration Hazard: Based on the viscosity test data, this product is not expected to present an aspiration 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

Safe Handling and Disposal Method: Aerosol containers should not be punctured, compacted in home trash compactors or incinerated.

Disposal of Contaminated Packaging: Empty containers may be disposed of through normal waste management options.

Environmental Regulations: Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

14 – Transportation Information

IMDG Shipping Name: Aerosols

IMDG Hazard Class: 2.1

UN Number: UN1950

IATA Shipping Name: Aerosols, Flammable

IATA Hazard Class: 2.1

UN Number: UN1950

ADG Shipping Name: Aerosols

ADG Hazard Class: 2.1

UN Number: UN1950

Hazchem (Emergency Action) Code: 2YE

Special Precautions for User: 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

Montreal Protocol (Ozone Depleting Substances): None present

The Stockholm Convention (Persistent Organic Pollutants): None present

The Rotterdam Convention (Prior Informed Consent): Not applicable

Basel Convention: Not applicable

International Convention for the Prevention of Pollution from Ships (MARPOL): None present

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): None present

Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS inventory.

New Zealand:

HSNO Approval Number: N/A

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Good for transport purposes.

HSNO Hazard Classes: 2.1.2A

New Zealand Inventory: All the ingredients comply with the HSNO regulations.

16 – Other Information

REVISION DATE: 27 April 2015

SUPERSEDES: New SDS

Prepared By: Industrial Health & Safety Consultants, Inc.

Full Text of GHS Classification and H Phrases from Section 3:

Flam. Gas Cat 1 Flammable Gas Category 1

Press. Gas Gas under Pressure

H220 Extremely flammable gas

H280 Contains gas under pressure; may explode if heated.

List of Abbreviations or Acronyms:

ACGIH American Conference of Industrial Hygienists
ADG Australian Dangerous Goods
AICS Australian Inventory of Chemical Substances
AU Australia
EC Effective Concentration
EU European Union
GHS Globally Harmonized System of Classification and Labelling of Chemicals
HSNO Hazardous Substances and New Organisms
IARC International Agency of Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LC Lethal Concentration
LD Lethal Dosage
LEL Lower Explosive Limit
NTP National Toxicology Program
OEL Occupational Exposure Limits
US OSHA United States Occupational Safety and Health Administration
PEL Permissible Exposure Limit
SDS Safety Data Sheet
STEL Short Term Exposure Limit
TWA Time-Weighted Average
UEL Upper Explosive Limit
VOC Volatile Organic Compounds
WHS Work Health and Safety

SIGNATURE: _____

TITLE: _____

This SDS complies with Australian guidelines for SDS. The foregoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to insure that their personnel have been notified of any changes which may affect them. The data provided on this SDS are not meant to be used as specifications, only as guideline information as to the safe use of this product. User should refer to applicable laws before use.

1095200/No.