



# Safety Data Sheet

## 1 – Product Identifier & Identity for the Chemical

|  |  |
|--|--|
| <p><b>Manufacturer:</b> WD-40 Company Australia Pty Ltd</p> <p><b>Address:</b> 41 Rawson Street<br/>(Level 2, Suite 23)<br/>Epping<br/>NSW, 2121, Australia</p> <p><b>Telephone:</b><br/><b>Information:</b> +61 2 9868 2200<br/><b>Emergency only:</b> 1800 024 973</p> <p><b>Poisons Information Centre:</b><br/><b>Australia:</b> 13 11 26<br/><b>New Zealand:</b> 0800 764 766</p> <p><b>New Zealand Contact Details:</b><br/><b>Name:</b> Eproducts New Zealand Limited<br/><b>Address:</b> 7D Orbit Drive<br/>Albany New Zealand<br/><b>Telephone:</b><br/><b>Information:</b> 09 916 6750</p> | <p><b>Product Name:</b> WD-40 Specialist High Performance Wet PTFE Lubricant</p> <p><b>Chemical Name:</b> Mixture</p> <p><b>Product Use:</b> Lubricant</p> <p><b>Restriction on Use:</b> None Identified</p> <p><b>SDS Date Of Preparation:</b> 21 June 2016</p> |
|--|--|

## 2 – Hazards Identification

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

| Health   | Environmental  | Physical  |
|--|--|---|
| Aspiration Toxicity Category 1<br>Eye Irritant Category 2A<br>Skin Irritant Category 2<br>Specific Target Organ Toxicity<br>Single Exposure Category 3<br>(Narcotic effects) | Aquatic Acute Toxicity<br>Category 2<br>Aquatic Chronic Toxicity<br>Category 2 | Flammable Aerosol Category 1<br>Gas Under Pressure:<br>Compressed Gas |

### Label Elements



Contains: Mineral Oil, 1,2,4-Trimethyl Benzene, Xylene, Mixed Isomers

### Danger!

- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure: may explode if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.

**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.

P261 Avoid breathing mist or vapors.

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 and eye protection.

**Response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor or physician.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical attention.

P362 Take off contaminated clothing and wash before reuse

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor or physician if you feel unwell.

P391 Collect spillage.

**Storage**

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal**

P501 Dispose of contents and container in accordance with local and national regulations.

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

**3 - Composition/Information on Ingredients**

| Ingredient   | CAS #      | Weight Percent | Substance Classification  |
|--|------------|----------------|---|
| Naphtha (petroleum), hydrodesulfurized heavy                   | 64742-82-1 | >60%           | Flam. Liq. Cat 3 (H226)<br>Asp. Tox. Cat 1 (H304)<br>STOT SE Cat 3 (H336)<br>Aq. Chronic Cat 2 (H411)<br>AUH066   |
| Distillates, Hydrotreated Heavy Paraffinic (contains <3% DMSO) | 64742-54-7 | <10%           | Not Hazardous   |
| Non-Hazardous Ingredients                                      | Mixture    | >10%           | Not Hazardous   |
| 1,2,4-Trimethyl benzene  | 95-63-6    | <10%           | Flam. Liq. Cat 3 (H226)<br>Acute Tox. Cat 4 (H332)<br>Eye Irrit. Cat 2 (H319)<br>Skin Irrit. Cat 2 (H315)<br>STOT SE Cat 3 (H335)<br>Aq. Chronic Cat 2 (H411) |
| 1,3,5-Trimethyl benzene  | 108-67-8   | <10%           | Flam. Liq. Cat 3 (H226)<br>STOT SE Cat 3 (H335)<br>Aq. Chronic Cat 2 (H411)   |
| Xylene, Mixed Isomers  | 1330-20-7  | <10%           | Flam. Liq. Cat 3 (H226)<br>Acute Tox. Cat 4 (H312)<br>Acute Tox. Cat 4 (H332)   |

|   |                     |       |   |
|---|---------------------|-------|---|
|   |                     |       | Skin Irrit. Cat 2 (H315)                            |
| Liquefied Petroleum Gas (Propane, Butane) | 74-98-6<br>106-97-8 | 1-5%  | Flam. Gas Cat 1 (H220)<br>Press. Gas (H280)         |
| Mineral Oil                               | Proprietary         | <3%   | Eye Irrit. Cat 2 (H319)<br>Skin Irrit. Cat 2 (H315) |
| Surfactant                                | Proprietary         | <0.5% | Eye Dam. Cat 1 (H318)<br>Skin Irrit. Cat 2 (H315)   |

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

#### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call a Poisons Information Center (phone 13 11 26 from anywhere in Australia or 0800 764 766 in New Zealand) 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 or rash 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:** May cause eye, skin, and respiratory irritation. Prolonged skin contact may cause drying of the skin. Inhalation may cause headache, dizziness, nausea and other symptoms of central nervous system depression. Accidental ingestion may cause gastrointestinal effects with irritation, nausea, vomiting, dizziness, coma and death. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

**Indication of Immediate Medical Attention and Special Treatment, if Needed:** Immediate medical attention is required for ingestion.

#### 5 – Fire Fighting Measures

**Suitable Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam.

**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. 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. 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:** Avoid releases to the environment. 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, dry, ventilated area away from 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   |
|--|---|--|
| Naphtha (petroleum), hydrodesulfurized heavy | 350 mg/m <sup>3</sup> TWA (manufacturer recommended)<br>5 mg/m <sup>3</sup> TWA AU OEL (as oil mist, refined mineral)<br>5 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL NZ OEL (as oil mist, mineral)<br>5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) (as mineral oil) | None Established   |
| Distillates, Hydrotreated Heavy Paraffinic   | 5 mg/m <sup>3</sup> TWA AU OEL (as oil mist, refined mineral)<br>5 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL NZ OEL (as oil mist, mineral)<br>5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) (as mineral oil)   | None Established   |
| Non-Hazardous Ingredients                    | None Established  | None Established   |
| 1,2,4-Trimethyl benzene                      | 25 ppm TWA ACGIH TLV/AU/NZ OEL (as Trimethyl benzene, all isomers)  | None Established   |
| 1,3,5-Trimethyl benzene                      | 25 ppm TWA ACGIH TLV/AU/NZ OEL (as Trimethyl benzene, all isomers)  | None Established   |
| Xylene, Mixed Isomers                        | 80 ppm TWA, 150 ppm STEL AU OEL<br>50 ppm TWA NZ OEL<br>100 ppm TWA, 150 ppm STEL ACGIH TLV   | Methylhippuric acids in urine, End of shift, 1.5 g/g creatinine. |
| Propane                                      | Asphyxiant – See Chapter 10 of Safe Work Australia Exposure Standard<br>NZ-WESEs: Simple Asphyxiant-may present an explosion hazard   | None Established   |
| n-Butane                                     | 800 ppm TWA AU OEL<br>800 ppm TWA NZ OEL<br>1000 ppm STEL ACGIH TLV (as Butane, all isomers)  | None Established   |
| Mineral Oil                                  | 5 mg/m <sup>3</sup> TWA AU OEL (as oil mist, refined mineral)<br>5 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL NZ OEL (as oil mist, mineral)<br>5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) (as mineral oil)   | None Established   |

|            |                  |                  |
|------------|------------------|------------------|
| Surfactant | None Established | 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:** Avoid prolonged or repeated 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 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:                  | Colorless liquid with a paraffinic odor | Partition Coefficient of n-octanol/water:        | Not determined      |
| Odor Threshold:                       | Not determined                          | Auto-ignition temperature:                       | Not determined      |
| pH:                                   | Not determined                          | Decomposition Temperature:                       | Not determined      |
| Melting/Freezing Point:               | Not applicable                          | Viscosity:                                       | Not determined      |
| Boiling Point / Range:                | 162-192°C (324-378°F) (Petroleum)       | Specific Heat Value:                             | Not determined      |
| Flash Point:                          | 41-42°C (106-108°F) (Petroleum)         | Particle Size:                                   | Not applicable      |
| Evaporation Rate (Butyl Acetate = 1): | Not determined                          | VOC:   | Not determined      |
| Flammability (solid, gas):            | Not applicable                          | Percent Volatile:                                | Not determined      |
| Flammable Limits:                     | LEL 0.7% UEL 6.5% (Petroleum)           | Saturated Vapor Concentration:                   | Not determined      |
| Vapor Pressure:                       | Not determined                          | Release of invisible flammable vapors and gases: | Not determined      |
| Vapor Density (air = 1):              | Not determined                          | Aerosol Protection Level (NFPA 30B):             | Not determined      |
| Relative Density (Water = 1):         | Not determined                          | Solubility:                                      | Immiscible in water |

**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. Avoid physical damage to aerosol can.

**Incompatible Materials:** Strong oxidizers.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

## 11 – Toxicological Information

### Health Hazards:

**Ingestion:** Swallowing is an unlikely route of exposure for an aerosol product. Swallowing large amounts may produce gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

**Eye Contact:** Liquid sprayed into eyes may cause irritation. May cause redness, stinging, swelling, and tearing.

**Skin Contact:** May cause skin irritation with redness, itching and burning of the skin. Prolonged and/or repeated contact may cause defatting with possible dermatitis.

**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.

**Chronic Exposure:** None known.

**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

### Acute Toxicity Values:

Naphtha (petroleum), hydrodesulfurized heavy: Oral rat LD50- >5000 mg/kg; Skin rabbit LD50- >3160 mg/kg.

Distillates, Hydrotreated Heavy Paraffinic: Oral rat LD50->15 gm/kg

Non-Hazardous Ingredients: No toxicity data available

1, 2, 4-Trimethyl benzene: Oral rat LD50 3400-6000 mg/kg; Skin rabbit LD50 - >3160 mg/kg

1, 3, 5-Trimethyl benzene: Inhalation rat LC50- 24000 mg/m<sup>3</sup>/4hr

Xylene, Mixed Isomers: Oral rat LD50 – 4300 mg/kg; Inhalation rat LC50 – 6350 ppm/4hr; Skin rabbit LD50- 1700 mg/kg

Mineral Oil: No toxicity data available

Surfactant: Oral rat LD50->3000 mg/kg

**Skin Corrosion/Irritation:** No data available for mixture. Based on the ingredients, this product is classified as a skin irritant.

**Serious Eye Damage/Irritation:** No data available for mixture. Based on the ingredients, this product is classified as an eye irritant.

**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:** No data available. Based on the ingredients, this product is expected to present an aspiration hazard and may be harmful if the contents are swallowed.

## 12 – Ecological Information

### Ecotoxicity:

Naphtha (petroleum), hydrodesulfurized heavy: 96 hr LC50 Fathead minnow – 8.2 mg/L; 96 hr LC50 Crangon Crangon – 4.3 mg/L

1, 2, 4-Trimethyl benzene: 96 hr LC50 Fathead minnows – 7.72 mg/L; 48 hr EC50 Daphnia magna – 6.14 mg/L

1, 3, 5-Trimethyl benzene: 96 hr LC50 Goldfish - 12.52 mg/L; 48 hr LC50 Daphnia magna- 6.0 mg/L

Xylene, Mixed Isomers: 96 hr LC50 Goldfish- 36.81 mg/L; 96 hr LC50 Rainbow trout – 13.5 mg/L

This product has been classified as toxic to the aquatic environment with long lasting effects based on the components. Releases to the environment should be avoided.

**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

**Marine Pollutant:** Yes

**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 (ADG7)

**Special Precautions for User:** 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

**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):** Not applicable

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):** Not applicable

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

**New Zealand:**

**HSNO Approval Number:** HSR002515

*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, 6.3A, 6.4A, 6.1E, 6.9B, 9.1D, 9.1B

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

## 16 – Other Information

REVISION DATE: 21 June 2016

SUPERSEDES: 5 June 2015

Prepared By: Industrial Health & Safety Consultants, Inc.

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

Acute Tox. Cat 4 Acute Toxicity Category 4

Aq. Chronic Cat 2 Aquatic Chronic Toxicity Category 2

Asp. Tox. Cat 1 Aspiration Toxicity Category 1

Eye Dam. Cat 1 Eye Damage Category 1

Eye Irrit. Cat 2 Eye Irritant Category 2

Flam. Gas Cat 1 Flammable Gas Category 1

Flam. Liq. Cat 3 Flammable Liquid Category 3

Press. Gas Compressed Gas

Skin Irrit. Cat 2 Skin Irritant Category 2

STOT SE Cat 3 Specific Target Organ Toxicity Single Exposure Category 3

H220 Extremely flammable gas.

H226 Flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

AUH066 Repeated exposure may cause skin dryness or cracking.

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

NZ New Zealand

OEL Occupational Exposure Limits

PEL Permissible Exposure Limit

SDS Safety Data Sheet

STEL Short Term Exposure Limit

TWA Time-Weighted Average



UEL Upper Explosive Limit  
US OSHA United States Occupational Safety and Health Administration  
VOC Volatile Organic Compounds  
WHS Work Health and Safety

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

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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.