



## Safety Data Sheet

### 1 – Product Identifier & Identity for the Chemical

<b>Manufacturer:</b> WD-40 Company Australia Pty Ltd  <b>Address:</b> 41 Rawson Street (Level 2, Suite 23) Epping NSW, 2121, Australia  <b>Telephone:</b> <b>Information:</b> +61 2 9868 2200 <b>Emergency only:</b> 1800 024 973  <b>Poisons Information Centre:</b> <b>Australia:</b> 13 11 26 <b>New Zealand:</b> 0800 764 766	<b>Product Name:</b> WD-40 Bulk Liquid  <b>Chemical Name:</b> Mixture  <b>Product Use:</b> Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion <b>Restriction on Use:</b> None Identified  <b>SDS Date Of Preparation:</b> 17 December 2014  <b>HSNO Approval Number:</b> HSR002519
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### 2 – Hazards Identification

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

Health	Environmental	Physical
Aspiration Toxicity Category 1 Eye Irritant Category 2A Skin Irritant Category 2	Aquatic Acute Toxicity Category 3 Aquatic Chronic Toxicity Category 3	Flammable Liquid Category 3

#### Label Elements



Contains: Naphtha (petroleum), hydrodesulfurized heavy; 1,2,4-Trimethyl benzene; 1,3,5-Trimethyl benzene; Xylene, Mixed Isomers; and Surfactant

#### Danger!

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Prevention

P210 Keep away from heat, sparks, open flames and hot surfaces.-No smoking.  
P233 Keep container tightly closed.  
P240 Ground or bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating or lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection and face protection.

**Response**

P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

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 it before reuse.

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.

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

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use water fog, dry chemical, carbon dioxide or foam for extinction.

**Storage**

P403+P235 Store in a well-ventilated place. Keep cool.

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

**3 - Composition/Information on Ingredients**

Ingredient	CAS #	Weight Percent	Substance Classification
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	>60%	Flam. Liq. Cat 3 (H226) Asp. Tox. Cat 1 (H304)
Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	10-20%	Not Hazardous
Non-Hazardous Ingredients	Mixture	>10%	Not Hazardous
1,2,4-Trimethyl benzene	95-63-6	<10%	Flam. Liq. Cat 3 (H226) Acute Tox. Cat 4 (H332) Eye Irrit. Cat 2 (H319) Skin Irrit. Cat 2 (H315) STOT SE Cat 3 (H335) Aq. Chronic Cat 2 (H411)
1,3,5-Trimethyl benzene	108-67-8	<10%	Flam. Liq. Cat 3 (H226) STOT SE Cat 3 (H335) Aq. Chronic Cat 2 (H411)
Xylene, Mixed Isomers	1330-20-7	<10%	Flam. Liq. Cat 3 (H226) Acute Tox. Cat 4 (H312) Acute Tox. Cat 4 (H332) Skin Irrit. Cat 2 (H315)
Surfactant	Proprietary	<1	Eye Dam. Cat 1 (H318) 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 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. 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:** Flammable liquid and vapor. Keep away from ignition source and open 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.

**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.

### 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.

**Environmental Precautions:** Avoid releases to the environment. Report spills to authorities as required.

**Methods and Materials for Containment/Cleanup:** Contain and collect liquid with an inert absorbent material 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. Use only with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

**Conditions for Safe Storage, including any incompatibilities:** Store in a cool, dry ventilated area away from incompatible materials. Protect from physical damage.

### 8 – Exposure Controls /Personal Protection

Chemical	Occupational Exposure Limits	Biological Limit Value
Naphtha (petroleum), hydrodesulfurized heavy	434 mg/m <sup>3</sup> TWA, 543 mg/m <sup>3</sup> STEL AU OEL 350 mg/m <sup>3</sup> TWA (manufacturer recommended)	None Established
Distillates, Hydrotreated Heavy Paraffinic	5 mg/m <sup>3</sup> TWA AU OEL (as oil mist, refined mineral) 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 OEL (as Trimethyl benzene, all isomers)	None Established
1,3,5-Trimethyl benzene	25 ppm TWA ACGIH TLV/AU OEL (as Trimethyl benzene, all isomers)	None Established
Xylene, Mixed Isomers	80 ppm TWA, 150 ppm STEL AU OEL 100 ppm TWA, 150 ppm STEL ACGIH TLV	Methylhippuric acids in urine, End of shift, 1.5 g/g creatinine.
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. Safety glasses or goggles recommended.

**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:	Light Amber liquid with a mild characteristic 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:	-63°C (-81.4°F)	Viscosity:	2.79-2.96 cSt @ 40°C (104°F)
Boiling Point / Range:	183-187°C (361.4-368.6°F)	Specific Heat Value:	Not determined
Flash Point:	49°C (120.2°F)	Particle Size:	Not applicable
Evaporation Rate (Butyl Acetate = 1):	Not determined	VOC:	49.5%
Flammability (solid, gas):	Not applicable	Percent Volatile:	70-75%
Flammable Limits:	LEL 0.6% UEL 8.0%	Saturated Vapor Concentration:	Not determined
Vapor Pressure:	6.9 kPa @ 38°C (100.4°F)	Release of invisible flammable vapors and gases:	Yes
Vapor Density (air = 1):	>1	Aerosol Protection Level (NFPA 30B):	Not applicable

Relative Density (Water = 1):	0.8-0.82	Solubility:	Immiscible in water
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## 10 – Stability and Reactivity

**Reactivity:** Non-reactive

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous Reactions:** Will not occur.

**Conditions to Avoid:** Avoid extreme heat, flames and other sources of ignition.

**Incompatible Materials:** Strong oxidizers.

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

## 11 – Toxicological Information

### Health Hazards:

**Ingestion:** 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 produce mild irritation. 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

Surfactant: Oral rat LD50->3000 mg/kg

**Skin Corrosion/Irritation:** No data available for mixture. Bases on the ingredients, 1, 2, 4-Trimethyl benzene and Xylenes, this product is classified as a skin irritant.

**Serious Eye Damage/Irritation:** No data available for mixture. Bases on the ingredients, 1, 2, 4-Trimethyl benzene and Surfactant, 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 harmful 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:** Dispose as appropriate for oil waste.

**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:** Petroleum Distillates, n.o.s. (Naphtha (petroleum), hydrodesulfurized heavy, Distillates, Hydrotreated Heavy Paraffinic)

**IMDG Hazard Class:** 3, PG III

**UN Number:** UN1268

**Marine Pollutant:** No

**IATA Shipping Name:** Petroleum Distillates, n.o.s. (Naphtha (petroleum), hydrodesulfurized heavy, Distillates, Hydrotreated Heavy Paraffinic)

**IATA Hazard Class:** 3, PG III

**UN Number:** UN1268

**ADG Shipping Name:** Petroleum Distillates, n.o.s. (Naphtha (petroleum), hydrodesulfurized heavy, Distillates, Hydrotreated Heavy Paraffinic)

**ADG Hazard Class:** 3, PG III

**UN Number:** UN1268

**Hazchem (Emergency Action) Code:** 2YE

**Special Precautions for User:** WD-40 does not test containers to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our 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):** 1, 2, 4-Trimethyl benzene and 1, 3, 5-Trimethyl benzene are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):** Hydrocarbons, liquids are listed in Schedule 5.

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

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

#### **16 – Other Information:**

REVISION DATE: 17 December 2014

SUPERSEDES: 4 November 2014

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. Liq. Cat 3 Flammable Liquid Category 3

Skin Irrit. Cat 2 Skin Irritant Category 2

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

H226 Flammable liquid and vapor.

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.

H411 Toxic to aquatic life with long lasting effects.

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

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