



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	Product Name: 3-In-One Contact Cleaner Chemical Name: Organic Mixture Product Use: Contact cleaner Restriction on Use: None Identified SDS Date Of Preparation: 5 November 2014 HSNO Approval Number: HSR002515
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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 2 Skin Irritant Category 2 Reproductive Toxicity Category 2 Specific Target Organ Toxicity- Repeated Exposure Category 2 Specific Target Organ Toxicity- Single Exposure Category 3 (Narcotic Effects)	Aquatic Acute Toxicity Category 2 Aquatic Chronic Toxicity Category 2	Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas

Label Elements



Contains: n-Hexane, Isopropyl Alcohol

Danger!

H222 Extremely flammable aerosol.
 H280 Contains gas under pressure: may explode if heated.
 H315 Causes skin irritation.
 H304 May be fatal if swallowed and enters airways.
 H336 May cause drowsiness or dizziness.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to nervous system through prolonged or repeated exposure by inhalation.
 H411 Toxic to aquatic life with long lasting effects.

Prevention

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 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.
 P260 Do not breathe mist, vapours or spray.
 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, eye protection and face 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.
 P308+P313 IF exposed or concerned: Get medical attention.
 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
n-Hexane	110-54-3	70-80%	Flam. Liq. Cat 2 (H225) Asp. Tox. Cat 1 (H304) Skin Irrit. Cat 2 (H315) Repro. Tox. Cat 2 (H361) STOT SE Cat 3 (H336) STOT RE Cat 2 (H373) Aq. Acute Cat 2 (H401) Aq. Chronic Cat 2 (H411)
Isopropyl Alcohol (Isopropanol)	67-63-0	10-20%	Flam. Liq. Cat 2 (H225) Eye Irrit. Cat 2A (H319) STOT SE Cat 3 (H336)
Carbon Dioxide	124-38-9	1-5%	Not Hazardous

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. Inhalation may cause drowsiness, dizziness and other nervous system effects. Harmful or fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. N-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur.

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. Cool fire exposed containers with water.

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. Combustion product include oxides of carbon.

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, 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
n-Hexane	20 ppm TWA AU OEL 50 ppm TWA ACGIH TLV (skin)	2, 5-Hexanedion in urine, End of shift at end of workweek, 0.4 mg/L
Isopropyl Alcohol	400 ppm TWA, 500 ppm TWA AU OEL 200 ppm TWA, 400 ppm STEL ACGIH TLV	Acetone in urine, End of shift at end of workweek, 40 mg/L
Carbon Dioxide	5000 ppm TWA, 30000 ppm STEL AU OEL 5000 ppm TWA, 30000 ppm STEL ACGIH TLV	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 in an aerosol can	Partition Coefficient of n-octanol/water:	Not determined
Odor Threshold:	Hydrocarbon odor	Auto-ignition temperature:	Not determined
pH:	Not applicable	Decomposition Temperature:	Not determined
Melting/Freezing Point:	Not applicable	Viscosity:	Not determined
Boiling Point / Range:	68.7°C (155.7°F) (n-Hexane)	Specific Heat Value:	Not determined
Flash Point:	-23°C (-9.4°F) (n-Hexane)	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 1.1% (n-Hexane) UEL 12.7% (Isopropanol)	Saturated Vapor Concentration:	Not determined
Vapor Pressure:	153 mmHg @ 25°C	Release of invisible	Yes

	(77°F) (n-Hexane)	flammable vapors and gases:	
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: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid extreme heat, flames and other sources of ignition. Avoid physical damage to aerosol can.

Incompatible Materials: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Oxides of carbon.

11 – Toxicological Information

Health Hazards:

Ingestion: Swallowing is an unlikely route of exposure for an aerosol product. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Eye Contact: Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.

Skin Contact: May cause skin irritation with short-term exposure with redness, itching and burning of the skin.

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: Prolonged overexposure may cause nervous system damage. n-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur. Prolonged exposure to n-hexane has resulted in decreased sperm count and degenerative changes in the testes of rats but not mice.

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

Acute Toxicity Values:

n-Hexane: Oral rat LD50- 16 g/kg, Inhalation rat LC50- >31.86 mg/L/4hr, Skin rabbit LD50- >2000 mg/kg

Isopropanol: Oral rat LD50- 4710 mg/kg, Inhalation rat LC50- 72.6 mg/L/4hr, Skin rabbit LD50- >5000 mg/kg

Carbon Dioxide: No toxicity data available

Skin Corrosion/Irritation: No data available for mixture. This product is classified as a skin irritant based on n-Hexane.

Serious Eye Damage/Irritation: No data available for mixture. This product is classified as a eye irritant based on Isopropanol.

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 other components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, US OSHA or the EU CLP.

Reproductive Toxicity: n-Hexane is suspected of causing reproductive harm. Prolonged exposure to n-hexane has resulted in decreased sperm count and degenerative changes in the testes of rats but not mice.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeated Exposure: Prolonged or repeated exposure to n-Hexane may damage the nervous system.

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:

n-Hexane: 48hr Oryzias latipes LC50: >1000 ug/L, 96hr Rainbow trout LL50: 12.51 -18.27 mg/L, 48hr Daphnia magna LC50: 30 mg/L

This product is classified as toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and Degradability: n-Hexane is not expected to readily degrade.

Bioaccumulative Potential: There is a potential for bioaccumulation.

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

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 Inventory: All the ingredients comply with the HSNO regulations.

16 – Other Information:

REVISION DATE: 5 November 2014

SUPERSEDES: New SDS

Prepared By: Industrial Health & Safety Consultants, Inc.

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

Aq. Acute Cat 2 Aquatic Acute Toxicity Category 2

Aq. Chronic Cat 2 Aquatic Chronic Toxicity Category 2

Asp. Tox. Cat 1 Aspiration Toxicity Category 1

Eye Irrit. Cat 2A Eye Irritant Category 2A

Flam. Liq. Cat 2 Flammable Liquid Category 2

Repro. Tox. Cat 2 Reproductive Toxicity Category 2

Skin Irrit. Cat 2 Skin Irritant Category 2

STOT RE Cat 2 Specific Target Organ Toxicity Repeated Exposure Category 2

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

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

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

APPROVED By: *J. Kowalski*

TITLE: Manager Regulatory Affairs

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