

# SAFETY DATA SHEET



## ACTICHEM VDS

### ACTICHEM PTY LTD

Product code: AP480.05

Version No: 2.3

Issue date: 11/09/2025

Safety Data Sheet according to WHS and ADG requirements

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                         |                          |
|-------------------------|--------------------------|
| Product name            | ACTICHEM VDS             |
| Product code            | AP480.05                 |
| Pack sizes              | 500ml & 5L               |
| UN Proper shipping name | FLAMMABLE LIQUID, N.O.S. |

### Relevant identified uses of the substance or mixture and uses advised against

|                          |                                      |
|--------------------------|--------------------------------------|
| Relevant identified uses | Carpet cleaning volatile dry spotter |
|--------------------------|--------------------------------------|

### Details of the manufacturer/importer

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Registered company name | ACTICHEM PTY LTD                              |
| Address                 | 11 Gamma Close, Beresfield 2322 NSW Australia |
| Telephone               | (02) 4966 5516                                |
| Website                 | www.actichem.com.au                           |
| Email                   | info@actichem.com.au                          |

### Emergency telephone number

|                                   |                            |
|-----------------------------------|----------------------------|
| Association / Organisation        | Poisons Information Centre |
| Emergency telephone numbers       | 13 11 26                   |
| Other emergency telephone numbers | Not Available              |

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

|                    |                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule   | 6                                                                                                                                                    |
| GHS Classification | Aspiration Hazard Category 1, Flammable Liquid Category 3, Skin Sensitizer Category 1, Eye Irritation Category 2, STOT (Single exposure) Category 3. |
|                    | Classification drawn from HCIS and ECHA C&L Inventory.                                                                                               |

### Label elements

|                   |                                                                                                                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms |    |
| SIGNAL WORD       | DANGER                                                                                                                                                                                                                                                      |

### Hazard statement(s)

|        |                                                       |
|--------|-------------------------------------------------------|
| AUH066 | Repeated exposure may cause skin dryness and cracking |
| H226   | Flammable liquid and vapour                           |
| H304   | May be fatal if swallowed and enters airways          |
| H317   | May cause an allergic skin reaction                   |
| H319   | Causes serious eye irritation                         |
| H335   | May cause respiratory irritation.                     |

## Precautionary statement(s) Prevention

|      |                                                                                                      |
|------|------------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. <b>NO SMOKING</b> |
| P233 | Keep container tightly closed.                                                                       |
| P240 | Ground/Bond container and receiving equipment.                                                       |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment.                                       |
| P242 | Use only non-sparking tools.                                                                         |
| P243 | Take precautionary measures against static discharge                                                 |
| P280 | Wear protective gloves and eye protection.                                                           |
| P264 | Wash exposed skin thoroughly after handling.                                                         |
| P272 | Contaminated clothing should not be allowed out of the workplace.                                    |
| P261 | Avoid breathing mist/vapour/spray.                                                                   |
| P271 | Use only outdoors or in a well-ventilated environment.                                               |

## Precautionary statement(s) Response

|                          |                                                                                                                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P301+P313+P330+P331      | IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting.                                                                                                          |
| P303+P361+P353+P333+P313 | IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.        |
| P305+P351+P338+P337+P313 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. |
| P304+P340+P312           | IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.                                        |
| P363                     | Wash contaminated clothing before reuse.                                                                                                                                                   |
| P370+P378                | In case of fire: Use alcohol resistant foam or normal protein foam for extinction.                                                                                                         |

## Precautionary statement(s) Storage

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| P403+P405+P233 | Store locked up, in a well-ventilated place. Keep container tightly closed. |
| P410+P235      | Protect from sunlight. Keep cool                                            |

## Precautionary statement(s) Disposal

|      |                                                                                |
|------|--------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in compliance with local government regulations. |
|------|--------------------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures.

## Mixtures

| CAS No       | %[weight] | Name                                          |
|--------------|-----------|-----------------------------------------------|
| 111-76-2     | 30 - 60   | <u>ethylene glycol monobutyl ether</u>        |
| 64742-48-9.  | 30 - 60   | <u>naphtha, petroleum, hydrotreated heavy</u> |
| 67-63-0      | 10 - <30  | <u>isopropanol</u>                            |
| 5989-27-5    | <10       | <u>d-limonene</u>                             |
| Trade secret | <10       | <u>proprietary solvent</u>                    |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | If eye contact occurs<br>Wash out immediately with fresh running water for at least 15 minutes.<br>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.<br>Seek medical advice; if pain persists or recurs seek medical attention.                                                                                                                                                                            |
| Skin Contact | If skin contact occurs:<br>Immediately remove all contaminated clothing, including footwear.<br>Flush skin and hair with running water (and soap if available).<br>Seek medical attention in event of irritation or rash.                                                                                                                                                                                                                                                                                          |
| Inhalation   | If fumes or combustion products are inhaled remove from contaminated area.<br>Lay patient down. Keep warm and rested.<br>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.<br>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.<br>Transport to hospital, or doctor.                                      |
| Ingestion    | Seek medical advice/attention without delay.<br><b>If swallowed do NOT induce vomiting.</b><br>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.<br>Observe the patient carefully.<br>Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious.<br>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. |

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

|                     |                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media | Alcohol stable foam.<br>Dry chemical powder.<br>BCF (where regulations permit).<br>Carbon dioxide.<br>Water spray or fog - large fires only. |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|

### Special hazards arising from the substrate or mixture.

|                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Fire incompatibility | Avoid contamination with oxidising agents i.e., nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

### Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | Alert Fire Brigade and tell them location and nature of hazard.<br>May be violently or explosively reactive.<br>Wear breathing apparatus plus protective gloves in the event of a fire.<br>Prevent, by any means available, spillage from entering drains or water course.<br>Consider evacuation (or protect in place).<br>Fight fire from a safe distance, with adequate cover.<br>If safe, switch off electrical equipment until vapour fire hazard removed.<br>Use water delivered as a fine spray to control the fire and cool adjacent area.<br>Avoid spraying water onto liquid pools.<br><b>Do not approach containers suspected to be hot.</b> |
| Fire/Explosion Hazard | Liquid and vapour are highly flammable.<br>Severe fire hazard when exposed to heat, flame and/or oxidisers.<br>Vapour may travel a considerable distance to source of ignition.<br>Heating may cause expansion or decomposition leading to violent rupture of containers.<br>Combustion products include carbon dioxide (CO <sub>2</sub> ) carbon monoxide (CO), other pyrolysis products typical of burning organic material.<br><b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions.                                                                                                   |
| HAZCHEM               | :3YE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|              |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | Remove all ignition sources.<br>Clean up all spills immediately.<br>Avoid breathing vapours and contact with skin and eyes.<br>Control personal contact with the substance, by using protective equipment.<br>Mop up using paper towel or equal and dispose of safely.                                                                                                            |
| Major Spills | Remove all possible sources of ignition. <b>NO SMOKING.</b><br>Increase ventilation.<br>Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labeled drums and dispose of according to local government regulations.<br>Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. |

|     |                                                                            |
|-----|----------------------------------------------------------------------------|
| PPE | Personal protective equipment advice is contained in Section 8 of this SDS |
|-----|----------------------------------------------------------------------------|

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | Containers, even those that have been emptied, may contain explosive vapours.<br>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.<br><b>Contains low boiling substance:</b> Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.<br>Check for bulging containers.<br>Vent periodically<br>Always release caps or seals slowly to ensure slow dissipation of vapours<br><b>DO NOT allow clothing wet with material to stay in contact with skin.</b><br>Avoid all personal contact, including inhalation.<br>Wear protective clothing when risk of exposure occurs.<br>Use in a well-ventilated area.<br>Prevent concentration in hollows and sumps.<br><b>DO NOT enter confined spaces until atmosphere has been checked.</b><br><b>Avoid smoking, naked lights, heat or ignition sources.</b> |
| Other information | Store in original containers in approved flame-proof area.<br>Wear personal protective clothing when risk of exposure occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Conditions for safe storage, including any incompatibilities.

|                         |                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <b>DO NOT use aluminium or galvanised containers</b><br>Packing as supplied by manufacturer.<br>Plastic containers may only be used if approved for flammable liquid.<br>Check that containers are clearly labelled and free from leaks. |
| Storage incompatibility | Strong oxidisers.<br>Strong acids and alkalis.                                                                                                                                                                                           |

### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient                             | Material name             | TWA                 | STEL                 | Peak          | Notes         |
|------------------------------|----------------------------------------|---------------------------|---------------------|----------------------|---------------|---------------|
| Australia Exposure Standards | ethylene glycol monobutyl ether        | 2-Butoxyethanol           | 96.9 mg/m3 / 20 ppm | 242 mg/m3 / 50 ppm   | Not Available | Sk            |
| Australia Exposure Standards | naphtha, petroleum, hydrotreated heavy | Oil mist, refined mineral | 5 mg/m3             | Not Available        | Not Available | Not Available |
| Australia Exposure Standards | isopropanol                            | Isopropyl alcohol         | 983 mg/m3 / 400 ppm | 1230 mg/m3 / 500 ppm | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient                             | Material name                                 | TEEL-1  | TEEL-2  | TEEL-3    |
|----------------------------------------|-----------------------------------------------|---------|---------|-----------|
| ethylene glycol monobutyl ether        | Butoxyethanol, 2-; (Glycol ether EB)          | 20 ppm  | 20 ppm  | 700 ppm   |
| naphtha, petroleum, hydrotreated heavy | Naphtha, hydrotreated heavy; (Isopar H-rev 2) | 171 ppm | 171 ppm | 570 ppm   |
| isopropanol                            | Isopropyl alcohol                             | 400 ppm | 400 ppm | 12000 ppm |
| d-limonene                             | Limonene, d-                                  | 20 ppm  | 20 ppm  | 160 ppm   |

| Ingredient                             | Original IDLH | Revised IDLH    |
|----------------------------------------|---------------|-----------------|
| ethylene glycol monobutyl ether        | 700 ppm       | 700 [Unch] ppm  |
| naphtha, petroleum, hydrotreated heavy | Not Available | Not Available   |
| isopropanol                            | 12,000 ppm    | 2,000 [LEL] ppm |
| d-limonene                             | Not Available | Not Available   |

## Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is not adequate, then the use of a local exhaust system is recommended.                                                                                                                                      |
| Personal protection              |                                                                                                                                                                                                                                                      |
| Eye and face protection          | Safety glasses with side shields or chemical goggles.<br>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly.     |
| Skin protection                  | See Hand protection below                                                                                                                                                                                                                                                                                                               |
| Hands/feet protection            | Wear chemical protective gloves, e.g. PVC.<br>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.<br>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. |
| Body protection                  | Not usually needed.                                                                                                                                                                                                                                                                                                                     |
| Other protection                 | Use suitable respiratory equipment if there is inadequate ventilation.                                                                                                                                                                                                                                                                  |
| Thermal hazards                  | Not Available                                                                                                                                                                                                                                                                                                                           |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|            |                         |
|------------|-------------------------|
| Appearance | Clear colourless liquid |
|------------|-------------------------|

|                                     |                |                                              |               |
|-------------------------------------|----------------|----------------------------------------------|---------------|
| Physical state                      | Liquid         | Relative density (Water = 1)                 | 0.834         |
| Odour                               | Solvent/orange | Partition coefficient                        | Not Available |
| Odour threshold                     | Not Available  | Auto-ignition temperature (°C)               | Not Available |
| pH (as supplied)                    | Not Applicable | Viscosity (cSt)                              | Not Available |
| Melting point / freezing point (°C) | Not Available  | Initial boiling point and boiling range (°C) | Not Available |
| Decomposition temperature           | Not Available  | Molecular weight (g/mol)                     | Not Available |
| Flash point (°C)                    | 30             | Taste                                        | Not Available |
| Evaporation rate                    | Not Available  | Explosive properties                         | Not Available |
| Flammability                        | Flammable.     | Oxidising properties                         | Not Available |
| Upper Explosive Limit (%)           | Not Available  | Surface Tension (dyn/cm or mN/m)             | Not Available |
| Lower Explosive Limit (%)           | Not Available  | Volatile Component (%vol)                    | Not Available |
| Vapour pressure (kPa)               | Not Available  | Gas group                                    | Not Available |
| Solubility in water (g/L)           | Immiscible     | pH as a solution                             | Not Available |
| Vapour density (Air = 1)            | Not Available  | VOC g/L                                      | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| Reactivity                         | See section 7                                                                        |
| Chemical stability                 | Unstable in the presence of incompatible materials.<br>Product is considered stable. |
| Possibility of hazardous reactions | See section 7                                                                        |
| Conditions to avoid                | See section 7                                                                        |
| Incompatible materials             | See section 7                                                                        |
| Hazardous decomposition products   | See section 5                                                                        |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|              |                                                                                                                                                                                                                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled      | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.<br>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.                                        |
| Ingestion    | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.<br>Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) |
| Skin Contact | Skin contact with the material may be harmful; systemic effects may result following absorption.<br>The material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time.                                                                                                               |
| Eye          | There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.                                                                                                                                                                 |
| Chronic      | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.                                                                                                        |

## Toxicological effects of ingredients

|                                          |                                |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| naphtha petroleum,<br>hydrotreated heavy | Acute toxicity                 | Oral LD50 (rat) >5000 mg/kg Dermal LD50 (rabbit) >5000 mg/kg Inhalation LC50 (rat) >5000 mg/m3 (8hr)                                                                                                                                                                                                                                                                       |
|                                          | Skin corrosion/irritation      | Mildly irritating to skin with prolonged exposure (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                                  |
|                                          | Eye damage/irritation          | May cause mild, short-lasting discomfort to eyes (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                                   |
|                                          | Respiratory/skin sensitization | Not expected to be a respiratory or skin sensitiser. (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                               |
|                                          | Germ cell mutagenicity         | Not expected to be a germ cell mutagen (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                                             |
|                                          | Carcinogenicity                | Not expected to cause cancer (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                                                       |
|                                          | Reproductive toxicity          | Not expected to be a reproductive toxicant (Based on test data for structurally similar materials)                                                                                                                                                                                                                                                                         |
|                                          | STOT (single exposure)         | Not expected to cause organ damage from a single exposure. Negligible hazard at ambient/normal handling temperatures. Vapour/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects including death. |
|                                          | STOT (repeated exposure)       | Not expected to cause organ damage from prolonged or repeated exposure (Based on test data for structurally similar materials). Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis                                                                                                     |
| ethylene glycol monobutyl<br>ether       | Aspiration toxicity            | May be fatal if swallowed and enters airways (Based on physicochemical properties of the material). Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.                                                                                                                                  |
|                                          | Acute toxicity                 | Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h                                                                                                                                                                                                                                                                 |
|                                          | Skin corrosion/irritation      | Causes skin irritation.                                                                                                                                                                                                                                                                                                                                                    |
|                                          | Eye damage/irritation          | Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                             |
|                                          | Respiratory/skin sensitization | Not classified No study available.                                                                                                                                                                                                                                                                                                                                         |
|                                          | Germ cell mutagenicity         | Not classified                                                                                                                                                                                                                                                                                                                                                             |
|                                          | Carcinogenicity                | Not classified                                                                                                                                                                                                                                                                                                                                                             |
|                                          | Reproductive toxicity          | Not classified                                                                                                                                                                                                                                                                                                                                                             |
|                                          | STOT (single exposure)         | High concentrations may cause central nervous system depression                                                                                                                                                                                                                                                                                                            |
| isopropanol                              | STOT (repeated exposure)       | Based on repeated exposure toxicity values, not classified                                                                                                                                                                                                                                                                                                                 |
|                                          | Aspiration toxicity            | Based on physico-chemical values or lack of human evidence. Not classified                                                                                                                                                                                                                                                                                                 |
|                                          | Acute toxicity                 | Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h                                                                                                                                                                                                                                                                      |
|                                          | Skin corrosion/irritation      | May be irritating to skin                                                                                                                                                                                                                                                                                                                                                  |
|                                          | Eye damage/irritation          | Causes serious eye irritation                                                                                                                                                                                                                                                                                                                                              |
|                                          | Respiratory/skin sensitization | Not expected to be a sensitizer                                                                                                                                                                                                                                                                                                                                            |
|                                          | Germ cell mutagenicity         | Not considered to be a mutagenic hazard                                                                                                                                                                                                                                                                                                                                    |
|                                          | Carcinogenicity                | Not considered to be a carcinogenic hazard.                                                                                                                                                                                                                                                                                                                                |
|                                          | Reproductive toxicity          | Not considered to be toxic to reproduction                                                                                                                                                                                                                                                                                                                                 |
|                                          | STOT (single exposure)         | May cause drowsiness or dizziness                                                                                                                                                                                                                                                                                                                                          |
|                                          | STOT (repeated exposure)       | Not expected to cause toxicity to a specific organ                                                                                                                                                                                                                                                                                                                         |
|                                          | Aspiration toxicity            | Not expected to be an aspiration hazard                                                                                                                                                                                                                                                                                                                                    |

|                     |                                |                                                                                                                                  |
|---------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| d-limonene          | Acute toxicity                 | Oral LD50 (rat) 4400 mg/kg Dermal LD50 (rabbit) >5000 mg/kg                                                                      |
|                     | Skin corrosion/irritation      | Causes skin irritation                                                                                                           |
|                     | Eye damage/irritation          | Causes serious eye irritation                                                                                                    |
|                     | Respiratory/skin sensitization | May cause an allergic skin reaction                                                                                              |
|                     | Germ cell mutagenicity         | No data available                                                                                                                |
|                     | Carcinogenicity                | No data available                                                                                                                |
|                     | Reproductive toxicity          | No data available                                                                                                                |
|                     | STOT (single exposure)         | No data available                                                                                                                |
|                     | STOT (repeated exposure)       | No data available                                                                                                                |
|                     | Aspiration toxicity            | May be fatal if swallowed and enters airways                                                                                     |
| proprietary solvent | Acute toxicity                 | Oral LD50 (rat) >5,000 mg/kg Dermal LD50 >2,000 mg/kg Inhalation LC50 4hr >11 mg/L                                               |
|                     | Skin corrosion/irritation      | No skin irritation                                                                                                               |
|                     | Eye damage/irritation          | Irritating                                                                                                                       |
|                     | Respiratory/skin sensitization | Not sensitising                                                                                                                  |
|                     | Germ cell mutagenicity         | Product is not considered to be genotoxic                                                                                        |
|                     | Carcinogenicity                | This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP / IARC / OSHA / ACGIH |
|                     | Reproductive toxicity          | No toxicity to reproduction / No effect observed on development                                                                  |
|                     | STOT (single exposure)         | Not classified                                                                                                                   |
|                     | STOT (repeated exposure)       | Not classified                                                                                                                   |
|                     | Aspiration toxicity            | No aspiration toxicity classification                                                                                            |

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

|                                        | Endpoint  | Duration (Hr.) | Species                                       | Value         |
|----------------------------------------|-----------|----------------|-----------------------------------------------|---------------|
| naphtha, petroleum, hydrotreated heavy | EC50(ECx) | 96             | Algae or other aquatic plants                 | 64mg/l        |
|                                        | EC50      | 96             | Algae or other aquatic plants                 | 64mg/l        |
| ethylene glycol monobutyl ether        | LC50      | 96             | Fish                                          | 1-250mg/L     |
|                                        | EC50      | 48             | Crustacea                                     | >1-mg/L       |
|                                        | EC50      | 96             | Algae or other aquatic plants                 | >1-mg/L       |
|                                        | NOEC      | 24             | Crustacea                                     | >1-mg/L       |
| isopropanol                            | LC50      | 96             | Fish                                          | 9-640mg/L     |
|                                        | EC50      | 48             | Crustacea                                     | 12500mg/L     |
|                                        | EC50      | 72             | Algae or other aquatic plants                 | >1000mg/L     |
|                                        | EC0       | 24             | Crustacea                                     | 5-102mg/L     |
|                                        | NOEC      | 504            | Crustacea                                     | =30mg/L       |
| d-limonene                             | LC50      | 96             | Fish                                          | 0.46mg/L      |
|                                        | EC50      | 48             | Crustacea                                     | 0.307mg/L     |
|                                        | EC50      | 72             | Algae or other aquatic plants                 | 0.214mg/L     |
|                                        | NOEC      | 0              | Algae or other aquatic plants                 | <0.05-1.5mg/L |
| proprietary solvent                    | LC50      | 96             | Pimephales promelas (fathead minnow)          | 18-24 mg/L    |
|                                        | EC50      | 48             | Daphnia magna (Water flea)                    | 112-150 mg/L  |
|                                        | ErC50     | 72             | Pseudokirchneriella subcapitata (green algae) | >85 mg/L      |

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high watermark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

**DO NOT discharge into sewer or waterways.**

### Persistence and degradability

| Ingredient                      | Persistence: Water/Soil   | Persistence: Air            |
|---------------------------------|---------------------------|-----------------------------|
| ethylene glycol monobutyl ether | LOW (Half-life = 56 days) | LOW (Half-life = 1.37 days) |
| isopropanol                     | LOW (Half-life = 14 days) | LOW (Half-life = 3 days)    |
| d-limonene                      | HIGH                      | HIGH                        |

### Bio accumulative potential

| Ingredient                      | Bioaccumulation        |
|---------------------------------|------------------------|
| ethylene glycol monobutyl ether | LOW (BCF = 2.51)       |
| isopropanol                     | LOW (LogKOW = 0.05)    |
| d-limonene                      | HIGH (LogKOW = 4.8275) |

### Mobility in soil

| Ingredient                      | Mobility          |
|---------------------------------|-------------------|
| ethylene glycol monobutyl ether | HIGH (KOC = 1)    |
| isopropanol                     | HIGH (KOC = 1.06) |
| d-limonene                      | LOW (KOC = 1324)  |

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                              |                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / packaging disposal | Containers may still present a chemical hazard/ danger when empty.<br>Take care to dispose of product / containers in a manner compliant with local government regulations |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

|                  |      |
|------------------|------|
| Marine Pollutant | No   |
| HAZCHEM          | •3YE |

**Land transport (ADG) – NOT REGULATED FOR THE TRANSPORTATION OF DANGEROUS GOODS IN PACK SIZES OF 5L OR LESS****SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****NAPHTHA PETROLEUM, HEAVY, HYDROTREATED IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australian Inventory of Industrial Chemicals (AIIC)  
Chemical Footprint Project - Chemicals of High Concern List  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australian Inventory of Industrial Chemicals (AIIC)  
International Agency for Research on Cancer (IARC) – Agents classified by AIIC monographs.

**ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australian Inventory of Industrial Chemicals (AIIC)  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**D-LIMONENE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australian Inventory of Industrial Chemicals (AIIC)  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**PROPRIETARY SOLVENT IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**SECTION 16 OTHER INFORMATION****Revision Schedule**

|               |            |
|---------------|------------|
| Revision Date | 11/09/2025 |
| Initial Date  | 27/03/2017 |

**SDS Version Summary**

| Version | Issue Date | Sections Updated                                             |
|---------|------------|--------------------------------------------------------------|
| 2.1     | 28/07/2021 | Sections 2, 3, 11, 12, 15, 16 have been updated or corrected |
| 2.2     | 09/06/2022 | Sections 2, 3, 8, 11, 12, 15.                                |
| 2.3     | 11/09/2025 | Section 2, 15.                                               |

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSN0 (CCID) New Zealand, AICIS and HCIS Australia

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**Definitions and abbreviations**

|          |                                                         |
|----------|---------------------------------------------------------|
| PC-TWA:  | Permissible Concentration-Time Weighted Average         |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit     |
| IARC:    | International Agency for Research on Cancer             |
| ACGIH:   | American Conference of Government Industrial Hygienists |
| STEL:    | Short Term Exposure Limit                               |
| TEEL:    | Temporary Emergency Exposure Limit                      |
| IDLH:    | Immediate Danger to Life or Health Concentrations       |
| OSF:     | Odour Safety Factor                                     |
| NOAEL:   | No Observed Effects Level                               |
| TLV:     | Threshold Limit Value                                   |
| LOD:     | Limit Of Detection                                      |
| OTV:     | Odour Threshold Value                                   |
| BCF:     | Bio Concentration Factors                               |
| BEI:     | Biological Exposure Index                               |

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**End of SDS**