



Section 1: Identification of the Material and Supplier

Product Name: Dynamic 2000

Other Names: Aqueous solution of alkaline salts and surfactants.

Proper shipping name (ADG Code): None assigned.

Recommended use: As a multi-purpose cleaner. Dilute and use as directed on the product label.

Supplier: Hunters Products (TAS) Pty. Ltd.,
A.C.N. 004 601 263

HEAD OFFICE
60 Gleadow Street,
INVERMAY TAS 7248
Tel: 03 6331 4755
Fax: 03 6334 1065

HOBART OFFICE
105 Albert Road,
MOONAH TAS 7009
Tel: 03 6228 7955
Fax: 03 6228 7988

BURNIE OFFICE
22 Pearl Street,
WIVENHOE TAS 7320
Tel: 03 6431 9627
Fax: 03 6432 2083

Emergency Phone Numbers:

| | | |
|---------------------------|---------------|------------------------------|
| Transport/Fire Emergency: | 000 | (Emergency services) |
| Medical Emergency: | 131126 | (Poisons Information Centre) |

Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Non-dangerous goods.

Risk Phrases:

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| R: 36/38 | Irritating to skin and eyes. |
| R: 43 | May cause sensitisation by skin contact. |

Safety Phrases:

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| S: 1/2 | Keep locked up and out of the reach of children. |
| S: 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S: 37/39 | Wear suitable gloves and eye/face protection. |
| S: 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

Section 3: Composition/Information on Ingredients

Ingredients:

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| Mixed surfactants | | < 10 % |
| Sodium hydroxide | [1310-73-2] | < 10 % |
| Alkaline salts | | < 10 % |
| d-Limonene | [5989-27-5] | < 10 % |
| Other ingredients deemed not to be hazardous | | < 10 % |
| Water | [7732-18-5] | to 100 % |

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure, rest and keep warm. Seek medical advice.

First Aid facilities:

Recommended: Eye wash. Hand wash basin.

Advice to Doctor:

Product is an alkaline solution containing mixed surfactants. Irritating to skin and eyes. Contains a very low proportion of d-limonene which may cause sensitisation by skin contact. If swallowed, vomiting should not have been induced because of risk of aspiration of froth into the lungs. Contact Poisons Information Centre.

Aggravated medical conditions:

Prior sensitisation to d-limonene, skin disorders.

Section 5: Fire Fighting Measures

HAZCHEM Code: None assigned.

Evacuate: No.

Extinguishant: Water.

Risk of violent reaction or explosion: No.

Products of combustion: Water vapour, oxides of carbon, oxides of phosphorus, oxides of nitrogen.

Protective Equipment: Breathing apparatus and protective gloves for fire only.

Section 6: Accidental Release Measures

Emergency Procedures:
Contain.

For large spills:
Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.

For small spills:
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water.

Section 7: Handling and Storage

Precautions for safe handling:
Avoid contact with skin and eyes.

Conditions for safe storage:
Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a banded area. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids, oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:
Acids, oxidising agents.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

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| ES-TWA: | Sodium hydroxide | 3 mg/m ³ |
| | d-Limonene | none assigned by NOHSC, but see: [MAK Germany] 110 mg/m ³ |
| ES-STEL: | None assigned. | |
| ES-PEAK: | Sodium hydroxide | 3 mg/m ³ |

Notations: None assigned by NOHSC, but see:
d-Limonene Skin, Sens. [Germany]

[Skin] indicates that this material may be absorbed via unbroken skin, and any such contact may invalidate the TLV.

[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.

[Sens] indicates that this material is a known sensitiser and may cause a specific immune response in some individuals.

Biological Limit Values: No data found.

Engineering Controls:

Avoid using active metals (such as aluminium, tin, zinc or galvanised iron), or wood products, as materials of construction. Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities, or if vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.

Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

Normal Use:

Eye/face protection
Gloves, rubber or plastic.

Industrial Quantities:

Face shield or safety glasses
Gloves, rubber or plastic
Plastic apron, sleeves and boots
Impervious overalls.

Section 9: Physical and Chemical Properties

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| Appearance: | Clear, yellow, mobile, frothing liquid. | |
| Odour: | Smell of citrus. | |
| pH: | > 11.5 | Alkaline. |
| Vapour Pressure: | No data. | |
| Vapour Density: | No data. | |
| Boiling Point: | > 100 °C | |
| Melting Point: | No data. | |
| Volatiles: | About 83 % | |
| Volatile Organic Compounds (VOC): | < 2 % | [d-limonene] |
| Evaporation Rate: | No data. | |
| Solubilities: | Miscible with water in all proportions. | |
| Specific Gravity/Density: | About 1 g/mL @ 20 °C | |
| Flash Point: | None. | |
| Flammable Limits: | None. | |
| Dust Explosion: | Not applicable. | |
| Auto-ignition Temperature: | No data. | |

Other Information:

Alkaline mixture. May react vigorously with acids. May react with strong oxidising agents. Contact with active metals (such as aluminium, tin, zinc) may generate hydrogen, a flammable gas. May attack wood and wood products. Very slippery when spilled.

Section 10: Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.
- Conditions to Avoid:** Incompatible materials.
- Incompatible Materials:** Acids, oxidising agents, active metals.
- Hazardous Decomposition Products:** Oxides of phosphorus, oxides of nitrogen.
- Hazardous Reactions:** May react vigorously with acids.

Section 11: Toxicological Information

Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

- Acute:**
- Swallowed:** Irritating to mouth, throat and stomach. Likely to cause gastric upset, nausea, vomiting and diarrhoea. An aspiration risk.
 - Skin:** Irritating to the skin, may cause redness, itching and pain. Will have a degreasing effect on the skin which may lead to further irritation.
 - Eyes:** Irritating to eyes. May cause redness and pain. Prolonged contact may cause tissue damage.
 - Inhaled:** An unlikely route at normal temperatures. Aspiration of froth into the lungs during swallowing or vomiting may lead to serious chemical pneumonitis (irritation and inflammation of lung tissues) and pulmonary oedema (fluid build-up in the lungs), with potential to become a medical emergency. Onset of symptoms may be delayed.
- Chronic:** Repeated skin contact may lead to irritation and possible skin burns. d-Limonene is reported as a sensitiser by skin contact, and in sensitised individuals further contact may result in allergic reactions.
- LD₅₀:**
- | | |
|------------------|--------------------------------|
| Surfactant #1 | No data found. |
| Surfactant #2 | 2,800 - 4,190 mg/kg oral, rat. |
| Sodium hydroxide | No data found. |
- LDLo:** Sodium hydroxide 1.57 mg/kg oral, human.

Section 12: Ecological Information

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| Ecotoxicity: | May be harmful to aquatic organisms. |
| Persistence and degradability: | One of the surfactants used in this product is not considered to be readily biodegradable. |
| Mobility: | Readily transported by water. |
| Environmental Fate: | No data. |
| Bioaccumulative potential: | No data. |
| Other adverse environmental effects: | Contains phosphates. May contribute to the development of algal blooms in natural waters. Contains surfactants. May be harmful to aquatic organisms, including fish. |

Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

Disposal methods and containers:

Avoid disposal to natural waters or the environment.

Avoid using containers of aluminium, tin, zinc or galvanised iron.

Special precautions for landfill or incineration:

Unsuitable for incineration.

May be unsuitable for some landfill sites.

Section 14: Transport Information

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| UN Number: | None assigned. |
| UN Proper shipping name: | None assigned. |
| Class and subsidiary risk: | None assigned. |
| Packaging group: | None assigned. |
| Special precautions for user: | Keep away from acids, oxidisers. Contain spillages. |
| HAZCHEM Code: | None assigned. |
| Material for export: | Not regulated. |

