



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: DETERGENT 2000 MDL Machine Dishwashing Liquid

Product Use: Commercial grade machine dishwashing liquid detergent for automatic feeders.

Miro's General Cleaning Services P/L trading as ATOMIC CHEMICALS

A.C.N 005 300 201 / A.B.N 77 005 300 201

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Emergency Telephone Number: 13 11 26

2. HAZARDS IDENTIFICATION

GHS Classification: Acute Toxicity- Oral, Category 4
Skin Corrosion/Irritation, Category 1B

Pictograms:



Signal Word: DANGER

Hazard Statements:

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

Precautionary Statements:

Prevention

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P260: Do not breathe dusts or mists.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330+P331: Rinse mouth. DO NOT induce vomiting.

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

P363: Wash contaminated clothing before reuse.

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

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

Storage

P405: Store locked up.

Disposal

P501: Dispose of container in accordance with local/regional/national/international regulations.



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

<u>Chemical Name:</u>	<u>CAS Number:</u>	<u>Proportion %:</u>
Potassium Hydroxide	1310-58-3	10-30
Sodium Metasilicate	6834-92-0	<10
Sodium Tripolyphosphate	7758-29-4	<10
Surfactant (Proprietary blend)		<10
Sodium Hypochlorite	7681-52-8	<10
Water	7732-18-5	>60

4. FIRST AID MEASURES

Poisons Information Centre: Phone 13 11 26

First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Rinse mouth with water and give glass of water. Never give anything by mouth to an unconscious person.

Eye: Immediately hold the eyes open and rinse continuously with plenty of water for at least 15 minutes and contact a doctor or Poisons Information Centre.

Skin: Remove any contaminated clothing and immediately wash contaminated skin with plenty of water. If irritation occurs, seek medical attention.

Inhaled: Remove affected person to fresh air. Seek medical attention if effects persist.

First Aid Facilities: Eye wash station.

Advice to Doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Detergent 2000 is not combustible.

Fire Fighting Procedures: Normal fire-fighting procedures. Fire fighters to wear fully encapsulating, gas-tight suits for maximum protection.

Extinguishing Media: Foam, CO₂, Dry chemical or Water fog.

6. ACCIDENTAL RELEASE MEASURES

Spill Control: Contain large spills and mop up. Avoid contact to eyes. Use absorbent (soil or sand, sawdust) material to collect. Slippery when spilt. Place in a suitable, labelled container for waste disposal. Do not let spilled or leaking material enter drains and waterways.

7. HANDLING AND STORAGE

Handling and Storage: Store in a well-ventilated place out of direct sunlight. Store away from acid, oxidizing agents, combustible materials and foodstuffs. Keep containers closed at all times - check regularly for leaks.

Segregation: Store away from acids and oxidizing agents.



8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Exposure limits:**
- | | |
|-------------------------|--|
| Potassium Hydroxide | 2mg/m ³ Peak limitation |
| Sodium Metasilicate | 2mg/m ³ TWA |
| Sodium Tripolyphosphate | 2mg/m ³ TWA |
| Sodium Hypochlorite | 1ppm TWA for decomposition product chlorine. |
- Engineering Controls:** Provide adequate ventilation. Avoid breathing vapour of product. Use with adequate ventilation.
- Personal Protection:** Respiratory: If mists/vapours are not adequately controlled by local ventilation, use an inorganic/organic vapour respirator to prevent overexposure.
Eye: Full wrap around Safety goggles.
Skin: Impervious Long Nitrile Gloves / PVC Apron / Safety Shoes

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description/Properties

Appearance/Odour: Clear liquid with faint odour.

Boiling Point/Melting Point: 100°C

Vapour Pressure: Not determined

Specific Gravity: 1.30

Flammability Limits: Not determined

Solubility in Water: Complete

Evaporation Rate: Not determined

pH: >13.0

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Reacts with strong acids and is corrosive to the skin and some metals.

11. TOXICOLOGICAL INFORMATION

Health Effects: Acute: Corrosive to all body tissue on contact.

Swallowed: Will cause: Corrosive damage to mouth, throat and stomach.

Eye: Will cause: Chemical burns and/or Permanent eye damage.

Skin: Will cause: Chemical burns.

Inhaled: Will cause: Irritation and/or chemical burns to mucous membranes.
Prolonged exposure may cause: Headache, Nausea.

Health Effects: Chronic: *Individuals with chronic respiratory disorders such as asthma, chronic bronchitis emphysema, etc., may be susceptible to irritating effects.*

12. ECOLOGICAL INFORMATION

Volatile Organic Compounds: This product is corrosive and poisonous in large concentrations.
May cause adverse effect in aquatic environment. Avoid contaminating waterways, drains, sewers or ground.

13. DISPOSAL CONSIDERATION



Disposal Method: No special method. Observe all applicable governmental regulations and local ordinances regarding disposal of hazardous materials.

14. TRANSPORT INFORMATION

UN Number: 1719 CAUSTIC ALKALI LIQUID N.O.S
Hazchem Code: 2R
Transport of Dangerous Goods: PGII
Dangerous Goods Class and Subsidiary Risk: Class 8
Contains: Sodium Hydroxide & Potassium Hydroxide

15. REGULATORY INFORMATION

Poison Schedule: 6
AICS: All chemicals listed on the Australian Inventory of Chemicals Substances (AICS)

16. OTHER INFORMATION

LD50 (Acute Oral Toxicity): Corrosive.
LD50 (Acute Dermal Toxicity): Corrosive
Carcinogenicity: None Known
Teratogenicity: None Known
Mutagenicity: None Known
Fish Toxicity: Not determined
Biodegradability: The surfactants are biodegradable per the Australian standard AS1792.

Abbreviations and Definitions of terms used:

<	less than
>	greater than
%	percentage
AICS	Australian Inventory of Chemical Substances
deg C	Degrees Celsius
g	gram
kg	kilogram
LD50	The does (swallowed all at once) which is lethal to 50% of a group of test animals.
mg	milligram
miscible	A liquid that mixes homogeneously with another liquid
ppm	parts per million

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