



## 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, CO<sub>2</sub>, 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

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

**Mutagenecity:** 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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