



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAUSTIC SODA

Product Use: Commercial grade oven and grill cleaning product.

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

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

Factory 1 / 65 Bond Street West

Mordialloc Vic 3195

Telephone: 03 9580 2766

Fax: 03 9580 4922

Email: atomic@cosmos.net.au

Web: www.atomicchemicals.com.au

Emergency Telephone Number: 13 11 26

2. HAZARDS IDENTIFICATION

GHS Classification: Skin Corrosion/Irritation, Category 1A

Corrosive to Metals – Category 1

Pictograms:



Signal Word: DANGER

Hazard Statements:

H314: Causes severe skin burns and eye damage

H290: May be corrosive to metals

Precautionary Statements:

Prevention

P264: Wash hands thoroughly after handling.

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

Response

P301+P330+P331: IF SWALLOWED: 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.

P310: Immediately call a POISON CENTER or doctor/physician.

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.

P234: Keep only in original container.

Disposal

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



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

| Chemical Name: | CAS Number: | Proportion %: |
|------------------|-------------|---------------|
| Sodium Hydroxide | 1310-73-2 | >99 |

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 30 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 and as for strongly alkaline corrosive material.

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Corrosive to aluminium, zinc and tin, liberating flammable hydrogen gas. Reacts violently with acids. Reacts with ammonium salts liberating ammonia gas. Absorbs carbon dioxide from air. Reacts exothermically on dilution with water. Keep containers cool by spraying with water to prevent pressure building up inside the drums, causing them to burst.

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 MEASURE

Spill Control: Contain large spills and increase ventilation. Wear protective equipment including contained breathing apparatus. Avoid contact to eyes. Use absorbent (soil or sand, sawdust) material to collect. Place in a suitable, labelled container for waste disposal. Do not let spilled or leaking material enter drains and waterways. It is toxic to aquatic life. Caution – heat may be evolved on contact with water.

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:** Threshold Limit Value (TWA) = 2 mg/m³ (Sodium Hydroxide) (Peak Limitation)
- 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 REACTIVITY

Physical Description/Properties

Appearance: White solid
Vapour Pressure: 0mmHg (20°C) (@20°C)
Specific Gravity: 2.13 Water = 1
Flashpoint: Not determined
Flammability Limits: Not determined
Solubility in Water: 100g / 100g 25°C
Boiling point: 1388deg c @ 101 325 Pa °C
Freezing / Melting Point: 318
Reactivity: Avoid mixing with strong acids and oxidising agents.
Evaporation Rate: Not determined
pH: (1% solution in water) 14

10. STABILITY AND REACTIVITY

- Stability:** Store away from acids and ammonium salts.
- Reactivity:** Reacts violently with water.

11. STABILITY AND REACTIVITY

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: 1823
Dangerous Goods Class and Subsidiary Risk: 8 PGII
Hazchem Code: 2W
Transport of Dangerous Goods: Classified by road and rail as dangerous goods
Contains: Sodium Hydroxide, Solid

15. REGULATORY INFORMATION

Poison Schedule: Schedule 6
AICS: All chemicals listed on the Australian Inventory of Chemicals Substances (AICS)
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010):37

16. OTHER INFORMATION

LD50 (Acute Oral Toxicity): Corrosive.
LD50 (Acute Dermal Toxicity): Corrosive
Carcinogenicity: None Known
Teratogenicity: None Known
Mutagenecity: None Known
Fish Toxicity: Low toxicity: $10 < LC/EC/IC \leq 100 \text{mg/l}$

Abbreviations and Definitions of terms used:

| | |
|----------|---|
| < | less than |
| > | greater than |
| % | percentage |
| 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 |

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Atomic Chemicals accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and local laws and regulations. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.