

**SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION**

**SYNONYMS:** Alkaline detergent  
**PROPER SHIPPING NAME:** Sodium Hydroxide Powder  
**CAS NUMBER:** 9003-11-6  
**UN NUMBER:** Not Regulated  
**PRODUCT USE:** Chlorinated Alkaline powder / Cleaner

**SUPPLIER:** CP Solutions Ltd, 63b Allens Road, East Tamaki, 2013,  
Auckland Telephone: +64 9 271 5290

**24 H Emergency Contact:** 0800 243 622 ( 24 Hours)

**Website:** [www.agmax.co.nz](http://www.agmax.co.nz)

**Email:** [info@agmax.co.nz](mailto:info@agmax.co.nz)

**SECTION 2 : HAZARDS IDENTIFICATION****STATEMENT OF HAZARDOUS NATURE**

Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation and GHS 7<sup>th</sup> Edition.

**GHS Hazard Statements**

**Physical Hazards:** Highly corrosive liquid.  
**Health Hazards:** May be fatal if swallowed.  
Causes serious eye and skin damage .  
**Environmental Hazards:** Toxic to aquatic life. May cause long-lasting harmful effects.  
Harmful to terrestrial vertebrates.

**HSNO Classification and Hazard Statements:**

6.1D, 8.1A, 8.2B, 8.3A, 9.1D, 9.3C

**6.1D Acute Toxicity (Oral)**

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

**8.1A Metallic corrosive**

H290 May be corrosive to metals

**8.2B Dermal corrosive (skin)**

H314 Causes severe skin burns and eye damage

**8.3A Ocular corrosive**

H318 Causes serious eye damage

**9.1D Toxic to Aquatic environment**

H413 May cause long lasting harmful effects to aquatic life



**Prevention statements:**

- P102 Keep out of reach of children
- P103 Read label before use
- P234 Keep only in original container
- P260 Do not breathe dust
- P261 Avoid breathing dust when opening sachets for mixing
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink, smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area
- P273 Avoid release to the environment
- P280 Wear protective gloves, clothing, eye and breathing protection

**Response statements:**

- P101 If medical advice is needed, have product container or label at hand
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 Rinse mouth
- P302+P352 IF ON SKIN: wash with plenty of soap and water
- P312 Call a POISON CENTER or doctor if you feel unwell
- P322 Specific measures (see First Aid instruction on outer container)
- P363 Wash contaminated clothing before re-use
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P390 Absorb spillage to prevent material damage
- 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
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor / physician
- P321 Specific measures (refer to First Aid section of the label / outer packaging)

**Storage statements:**

- P406 Store in corrosive resistant container with a resistant inner liner

**Disposal Statements:**

- P501 Dispose of empty containers safely in accordance with local regulations.

**SECTION 3 : COMPOSITION**

**Appearance:** White granular powder with a chlorine odor

<b>Ingredient</b>	<b>CAS Number</b>	<b>Proportion</b>
Sodium Hydroxide	1310-73-2	>50%
Sodium Dischloroisocyanurate	51580-86-0	>20%
Surfactants and Sequestering agents		to 100%

**SECTION 4 : FIRST AID MEASURES**

If medical advice is needed, have product container or label on hand

Refer First Aid instructions on label

**SWALLOWED**

If swallowed: Rinse mouth, then (slowly) drink plenty of water or milk (no more than 2 glasses for an adult). Do NOT induce vomiting. If vomiting occurs, lean victim forward or place on their left side (head down position) to maintain an open airway and prevent aspiration. Keep victim warm and quiet. **Immediately call a POISON CENTER or doctor/physician**  
Never give anything by mouth to an unconscious person.

**EYE**

IF IN EYES: Immediately flush eyes with running water for at least 15 minutes, holding eyelids apart and away from the eye. Remove contact lenses, if present and easy to do. Continue rinsing. Injury should be irrigated for 20 - 30 minutes. Immediately call a Poison Centre or doctor/physician.

**SKIN**

Skin contact: Immediately remove contaminated clothing and shoes. Flush skin (and hair) with running water for 20 - 30 minutes. For minor skin contact, avoid spreading material onto unaffected skin. Immediately call a Poison Centre or doctor/physician. Wash contaminated clothing and shoes before reuse.

**INHALED**

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult.

**NOTES TO PHYSICIAN**

Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved and take precautions to protect themselves. Treat symptomatically and supportively.

**SECTION 5 : FIRE FIGHTING MEASURES****GENERAL MEASURES**

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

**FLAMMABILITY CONDITIONS**

Non-combustible. Material does not burn.

**EXTINGUISHING MEDIA**

Use extinguishing media suitable for the surrounding fire. Use dry chemical, CO<sub>2</sub>, foam or water spray - Do NOT use water jets.

**FIRE AND EXPLOSION HAZARDS**

Containers may explode when heated. Contact with metals may evolve flammable hydrogen gas. Contact with moisture or water may generate sufficient heat to ignite combustible substances; spattering and boiling may occur.

**HAZARDOUS PRODUCTS OF COMBUSTION**

Fire or heat will produce irritating, toxic, and/or corrosive gases.

**SPECIAL FIRE FIGHTING INSTRUCTIONS**

Runoff from fire control or dilution water may be toxic and/or corrosive and pollute waterways.

**PERSONAL PROTECTIVE EQUIPMENT**

Wear self-contained breathing apparatus (SCBA) with a full face-piece, in positive pressure mode. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is recommended for fire situations ONLY - it is NOT effective for spills.

**FLASH POINT**

No Data Available

**LOWER EXPLOSION LIMIT**

No Data Available

**UPPER EXPLOSION LIMIT**

NO Data Available

**AUTO IGNITION TEMPERATURE**

No Data Available

**HAZCHEM CODE**

2W

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****General Response Procedure**

Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin and eyes. Do NOT breath dust.

**Clean Up Procedures**

Sweep spilled substance into suitable containers for later disposal. Prevent dust cloud. Do NOT get water inside containers.

**Containment**

Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Dike and clean up all spills immediately.

**Decontamination**

Small spills or residues can be flushed with plenty of water.

**Environmental Precautionary Measures**

Drains for storage or work areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

**Evacuation Criteria**

Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.

**Personal Precautionary Measures**

Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for spills.

**SECTION 7 : HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING**

Corrosive - Non flammable

Avoid spilling, skin and eye contact. Wear protective clothing, including elbow length PVC gloves and suitable eye protection.

Use with adequate ventilation - avoid creation and inhalation of dusts.

After use wash hands before eating, drinking or smoking.

Do not handle broken packages unless wearing appropriate personal protective equipment.

**STORAGE CONDITIONS**

Do not store with D.G classes 1,5,7, strong acids, food or food containers.  
Store in original container, tightly closed, away from foodstuffs and out of reach of children.

**SHELF LIFE**

Use within 24 Month

**SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION****EXPOSURE LIMITS**

TWA 2 mg/m<sup>3</sup> (Sod. Hydroxide)

**ENGINEERING CONTROLS**

Use with adequate ventilation - avoid creation and inhalation of dust.

**EYE/FACE PROTECTION**

Use safety glasses (with side shields).

**SKIN PROTECTION**

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

**OTHER PROTECTION**

Wear overalls, use elbow length PVC gloves and suitable eye protection.

**RESPIRATORY PROTECTION**

Use appropriate breathing protection.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

White granule/powder with a Chlorine odor

**PHYSICAL PROPERTIES**

Very soluble in water.

**Specific Gravity:** 940 - 1140 g/ltr Bulk Density

**pH value:** 11.5 - 12.5

**SECTION 10 : STABILITY AND REACTIVITY****REACTIVITY**

Incompatible with a wide variety of materials including acids, many metals, phenols and combustible organics.

Stable under normal ambient and anticipated storage and handling conditions.

Incompatible with acids, peroxides, reducing agents and metal salts.

Reacts **explosively** with amines and methanol.

**SECTION 11 : TOXOLOGICAL INFORMATION****ACUTE HEALTH EFFECTS****Sodium hydroxide**

Intraperitoneal LD50 (mouse) 40 mg/kg  
Oral Lowest Leathal Dose: (rabbit) 500 mg/kg

**EYE**

(rabbit) 1 mg/30sec rinse severe irritation

Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulcerations and gelatinous necrotic areas at the site of contact

**SKIN**

(rabbit) 500 mg/24 hr severe irritation

**CHRONIC HEALTH EFFECTS**

No data available.

**TOXICITY****Sodium Hydroxide**

Intraperitoneal LD50 (mouse) 40 mg/kg  
Oral Lowest Leathal Dose: (rabbit) 500 mg/kg  
Skin (rabbit) 500 mg/24 hr severe irritation  
Eyes (rabbit) 1 mg/30sec rinse severe irritation

Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulcerations and gelatinous necrotic areas at the site of contact

**SECTION 12 : ECOLOGICAL INFORMATION****ECOTOXICITY**

Toxicity to Fish: 96 hr LC50: 4.16 mg/l

Toxicity to Algae or other aquatic plants: 96 hr EC50: 1,034.1 mg/l

Toxicity to Crustacea: 384 hr EC50: 27,901.6 mg/l

Toxicity to Fish: 96 hr NOEC: 56 mg/l

**PERSISTENCE /DEGRADABILITY**

Water/soil: Low persistence.

Air: Low persistence.

**MOBILITY**

Soil: KOC = 14.3 (Low mobility).

**ENVIRONMENTAL FATE**

Avoid release to the environment. Drains for storage or work areas should have retention basins for pH adjustments and dilution of spills/residues before discharge or disposal of material.

**BIOACCUMULATION POTENTIAL**

LogKow = -3.8796 (Low potential).

**ENVIRONMENTAL IMPACT**

No Data Available

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**Container disposal:** Dispose of empty containers safely in accordance with local regulations.

Triple rinse containers when empty, hold slurry.

Avoid contamination of natural water supplies with chemical or empty container. After cleaning, all existing labels should be removed.

**Product disposal:** Adjust the pH of slurry to neutral with citric acid, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush the aqueous solutions down the drain with plenty of water.

The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition and good ventilation.

**SECTION 14 : TRANSPORT INFORMATION**

<b>UN No.</b>	1823 SODIUM HYDROXIDE, SOLID
<b>Dangerous Goods Class:</b>	8 - Corrosive
<b>Hazchem code:</b>	2R
<b>Packing group:</b>	II
<b>Proper Shipping Name:</b>	Alkaline Detergent
<b>Segregation:</b>	Don't store with D.G classes 1, 5, 7, strong acids, food or food containers.

**SECTION 15 : REGULATORY INFORMATION**

ERMA Approval Code:	HSR002526
Group Standard:	Cleaning Products (Corrosive)
MPI approved:	MPI Approved for use in farm dairies
HSNO Controls:	Trigger quantities for this substance by itself in a place
Approve handler test certificate:	Not required
Hazardous substance location:	Not required
Location Test certificate:	Not required
Hazardous Atmosphere Zone:	Not required
Emergency Plan:	1000 kgs
Tracking:	Not required
Warning Signs:	250 kgs
Record of application or discharge:	Not required

**SECTION 16 : OTHER INFORMATION**

New Zealand Poisons Information Center 0800 POISON (0800 764 766)

EPA The Environmental Protection Authority of New Zealand

GHS Globally Harmonized System of Classification and Labelling of Chemicals

HSHO Hazardous Substances and New Organisms Act 1996

MPI Ministry for Primary Industries

**DISCLAIMER:** *The data given relates to this product alone, and it is not for use in conjunction with other substances or products. In such circumstances, assuming the combination is permitted, refer to product labels, be guided by the most hazardous of the substances involved and observing the more stringent hazard controls applicable.*

*The information contained in this safety data sheet was obtained from current and reliable sources. This data is supplied without warranty, expressed or implied, regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.*

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