

**SAFETY DATA SHEET**

**SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- **Product (material) name:** CG 31 Decarboniser
- **Other names:** Alkaline Detergent
- **Recommended use:** Bath Decarbonising & Degreasing
- **Supplier:** Sprint Cleaning Products 1/90 Heathcote Rd Moorebank NSW, 2170
- **Tel:** 02 8712 2406
- **Emergency:** Contact Poisons Info Centre 131 126 or Manufacturer

**SECTION 2: HAZARDS IDENTIFICATION**

□ **Classification of the substance or mixture**

This product is considered to be hazardous according to the criteria of the Globally Harmonised System (GHS):

- Eye damage – category 1
- Specific target organ toxicity (single exposure) – category 3

□ **Pictograms**



□ **Signal word:** Danger

□ **Hazard statement(s):**

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

□ **Precautionary statement(s):**

**PREVENTION**

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

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.

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.

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.

P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

**STORAGE**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**DISPOSAL**

P501 Dispose of contents/ container to an approved waste disposal plant

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**MIXTURE:**

| Chemical name             | CAS No.    | % product |
|---------------------------|------------|-----------|
| Sodium meta Silicate      | 10213-79-3 | < 10% w/w |
| Sodium hydroxide          | 1310-73-2  | < 70% w/w |
| Non Hazardous ingredients | Various    | To 100    |

This is a commercial product and the exact ratio of ingredients may vary slightly and trace quantities of impurities are also possible.

**SECTION 4: FIRST AID MEASURES**

|                            |  |
|----------------------------|--|
| <b>General information</b> | Consult a physician. Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>          | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.  |
| <b>Skin contact</b>        | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor. |
| <b>Eye contact</b>         | If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.        |
| <b>Ingestion</b>           | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  |

**SECTION 5: FIRE FIGHTING MEASURES**

|                           |   |
|---------------------------|---|
| <b>Flammability</b>       | Non flammable. May evolve toxic gases if strongly heated.     |
| <b>Fire and Explosion</b> | Non flammable. No fire or explosion hazard exists.            |
| <b>Extinguishing</b>      | Non flammable. Prevents contamination of drains or waterways. |
| <b>Hazchem Code</b>       | 2x  |

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|                             |  |
|-----------------------------|--|
| <b>Emergency Procedures</b> | Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. |
|-----------------------------|--|

**SECTION 7: HANDLING AND STORAGE**

|                                      |  |
|--------------------------------------|--|
| <b>Precautions for Safe Handling</b> | Corrosive liquid. Attacks skin and eyes. Causes burns. Avoid breathing in vapours, mist or fumes. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.   |
| <b>Conditions for Safe Storage</b>   | Corrosive liquid. Store in a cool dry well-ventilated area. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations.<br>For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances. |

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National exposure standards:**

| Chemical         | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|------------------|--------------------------|---------------------------|
| Sodium hydroxide | 2                        | -                         |

**Engineering Controls** This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.  
For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

**Respiratory Protection** If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection** Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Wear gloves of impervious material . Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.  
Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection** Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance & odour:** Solid beige powder  
**pH:** (1% solution in water) 12  
**Boiling point:** Not relevant (powder)  
**Flash point:** Not relevant, doesn't burn  
**Flammability:** N/A  
**Specific gravity:** Not available  
**Water solubility:** Soluble

**SECTION 10: STABILITY AND REACTIVITY**

**Chemical Stability** Stable under normal conditions of storage and handling.

**Conditions to Avoid** Extremes of temperature and direct sunlight.

**Incompatible Materials** Will react with water or steam to produce toxic and corrosive fumes. Keep away from strong oxidising agents and strong bases. Avoid contact with metals. Reacts with zinc, brass, galvanised iron, aluminium, copper and copper alloys. Keep away from cyanides and sulphides.

**Hazardous Decomposition Products** Thermal decomposition may result in the release of toxic and/or irritating fumes including hydrogen chloride.

**Hazardous Reactions** Reacts with incompatible materials. Reacts with water. In contact with reactive metals, can liberate flammable hydrogen gas which can form explosive mixtures in air.

**Hazardous Polymerization** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Local effects:** The chemical is irritating to the skin, eyes and respiratory system

**Target organs:** An ingredient in product formulation used at <20% was determined to be corrosive to the respiratory system based on the high alkalinity.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco toxicity** No ecological data available for this material.

**Persistence / Degradability** Not available

**Mobility** Not available

**Bio accumulative Potential** Not available

**Environment Protection** Do not discharge this material into waterways, drains and sewers.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- Disposal methods and containers
- Special precautions for landfill or incineration

**SECTION 14: TRANSPORT INFORMATION**

**Transport Information**

Australia:

This material is classified as Dangerous Goods Class 8 Corrosive Substances according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic Peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

New Zealand:

This material is classified as Dangerous Goods Class 8 Corrosive Substances according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Division 5.1, Oxidising substances
- Division 5.2, Organic peroxides
- Class 7, Radioactive materials unless specifically exempted
- Food items.

Note 1: Cyanides (Division 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).

Note 2: Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Division 4.3, Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Division 4.3, Dangerous when wet substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic peroxides
- Food items.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.:3253

Proper Shipping Name: Sodium metasilicatepenta hydrate

Class: 8

Packaging Group: III

EMS No.: F-A, S-B

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3253  
 Proper Shipping Name: Sodium metasilicate penta hydrate  
 Class: 8  
 Packing Group: III  
 Label: Corrosive  
 Packing Instruction: 852 (For passenger and cargo aircraft)  
 Packing Instruction: 856 (For cargo aircraft only)  
 Special provisions: A3, A803

**SECTION 15 REGULATORY INFORMATION**

**Regulatory Information** Australia  
 Classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.  
 Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poisons Schedule** S6

**National and or International Regulatory Information** New Zealand  
 Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.  
 Group Standard: Additives, Process Chemicals and Raw Materials (Toxic 6.1, Corrosive )  
 Group Standard 2006.

**HSNO Approval Number** HSR002510

**Hazard Category** Corrosive

**Additional national and/or international regulatory information.**

**SECTION 16 OTHER INFORMATION**

**Date of preparation or last revision of the SDS** **September 2020**

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail  
**AICS** Australian Inventory of Chemical Substances  
**SWA** Safe Work Australia  
**CAS number** Chemical Abstracts Service Registry Number  
**Hazchem Code** Emergency action code of numbers and  
**IARC** International Agency for Research on Cancer  
**R** Risk Phrase  
**S** Safety Phrase  
**UN Number** United Nations Number  
**TWA** Time Weighted Average airborne concentration 8 hour day.  
**STEL** Short Term Exposure Limit

**Disclaimer:**

A) This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information is meant to describe Safety Requirements of the product and should not be construed as guaranteeing specific properties. This MSDS is analogous to the data for the principal components of the mixture/compound. No warranty, express or implied, is made as to its accuracy, reliability or completeness.

B) Each user should read this MSDS, all product labels, and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

C) We can not accept any liability for any damage or injury caused by the product as it is sold and its use, handling and storage are completely out of our control.