

Material Safety Data Sheet

CHEMICAL IMPROVEMENT CO. PTY LTD

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PHONE: (03) 9397 3322 7am – 4pm Mon - Friday

1. Identification of Preparation

Product Name:

Auto Dishwash Powder

Synonyms:

A.D.W.P., Machine Dishwash Powder

CAS-No.:

Molecular Formula:

Recommended use: Cleaning cutlery, crockery and saucepans in Automatic Dishwashing Machines

2. Composition/Information on Ingredients

Appearance: White powder with chlorine odour

Chemical entity	c.a.s. n	proportion
Sodium Dichloro Isocyanurate	2893-78-9	<10%
Sodium Carbonate	497-19-8	30-60%
Sodium Metasilicate	6834-92-0	10-30%

3. Hazards Identification

The substance is Hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition.

Poisons Schedule (Aust)/Toxic Substance (NZ): n/a

Hazard Xi Irritant

R-phrases

R22 Harmful if swallowed

R31 Contact with acids liberates toxic gas

R36/37 Irritating to eyes and respiratory system

S-phrases

S2 Keep out of reach of children

S22 Do not breathe dust

S26 In case of contact with eyes, rinse

immediately with plenty of water and contact a doctor or Poisons Information Centre

Not Classified as Dangerous Goods for the purpose of transport by Road or Rail. Refer to relevant regulations for storage and transport requirements.

Poisons Schedule (Aust)/Toxic Substance(NZ): S5

4. FIRST AID MEASURES

Poison Information Centres in each State Capital city can provide additional assistance for scheduled poisons.

INGESTION: DO NOT induce vomiting. Drink 1 - 3 cups of water. Do not give anything by mouth to an unconscious person. Seek Medical attention immediately.

EYE CONTACT: Immediately flush eyes with large amount of water, occasionally lifting the upper and lower eyelids. Seek medical attention immediately.

SKIN CONTACT: Remove all contaminated clothing including footwear. Wash affected areas thoroughly with mild soap and water. If effects persist seek medical advice.

INHALATION: If person experiences , nausea, headache or dizziness, person should stop work immediately and move to

fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep patient warm and rest. Seek medical attention at once

4. FIRST AID MEASURES

First Aid Facilities: Ensure an eye bath and safety shower are available and ready for use.

Notes to physician: Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Specific Hazards: Non combustible material. Chlorine decomposes when heated to high temperatures which may rupture container. In contact with acids, the material may give off toxic gas.

Extinguishing Media: Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Avoid raising dust. Clean up personnel should wear full protective clothing including breathing apparatus if dusty conditions exist. Do not place spill materials back in their original containers. Sweep up or vacuum spills, place in labelled containers and hold for waste disposal.

7. HANDLING & STORAGE

STORAGE: Store in a sealed container. Keep container closed at all times. Store in a dark, cool well ventilated area away from heat and light.

Store away from moisture and water as this causes lumping of the product. Since some water of crystallisation may be released on exposure to atmosphere or heat with an accompanying loss of available chlorine, the product should be stored in covered containers in a cool place at all times.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

No value assigned for this material by the National Occupational Health and Safety Commission (Worksafe Australia)

Exposure standards for constituents: TWA STEL
Ppm mg/m³ ppm mg/m³

As published by the National Occupational Health & Safety Commission (Worksafe Australia)

Peak Limitation - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. TWA - the time weighted average airborne concentrations over an eight hour working day for a five day working week over an entire working life.

STEL (Short Term Exposure Limit) the average airborne concentration over a 15 minute period which should not be exceeded over any time during a normal eight-hour day. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable.

ENGINEERING MEASURES

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Avoid generating and inhaling mists. Use with local exhaust ventilation or while wearing organic vapour respirator or particulate respirator meeting the requirements of AS1715 and AS1716. Keep containers closed when not in use.

PERSONAL PROTECTION EQUIPMENT

Wear rubber gloves and splash proof chemical goggles. Use a respirator if ventilation is inadequate.

Proper Shipping Name:

Segregation Dangerous Goods: Not classified as dangerous goods for transport. Do not pack with acids, oxidants or ammonia

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form/Colour/Odour: White powder with a chlorine odour.
Solubility: 180g/L (25 deg C) in water
Specific Gravity (25 C) 1.12
Melting Point (C):N/Av
Rel Vapour Density 19.2
Boiling Point (C) N Ap
Vapour Pressure (25 C) N Ap
Decomp. Point (C) N Av
Flash Point *
Sublimation Point: N Ap
Flammability Limits N Ap
pH: 11.5 (1% soln)
Autoignition Temp: N Ap
Viscosity: N Ap
% Volatile by volume 0
Evaporation Rate: N Av
N Ap = Not applicable N Av = Not Available

10. STABILITY AND REACTIVITY

Stability: Unstable to heat and direct sunlight. Avoid acids, ammonia, organic compounds and salt.
Decomposition products: Chlorine, Chlorine Dioxide, Chloramines.
Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Main symptoms: No adverse health effects expected if the product is handled in accordance with the Safety Data Sheet and the label.
Symptoms that may arise if the product is mishandled are:
Ingestion: Irritation to digestive system
Eye contact: Irritation to eyes.
Skin contact: Irritation to skin.
Inhalation: Exposure to dust may cause irritation to the respiratory system.
Long Term Effects: No information available for product.
Acute toxicity/Chronic Toxicity: No information available for product.

12. ECOLOGICAL INFORMATION

No information available for product

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority.

14. TRANSPORT INFORMATION

Not Classified as Dangerous Goods for the purpose of transport by road or rail.
UN No.: Not classified
Class:
Hazchem Code: N/A
EPG:
Packaging Group:

15. REGULATORY INFORMATION

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The substance is Hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition.
Poisons Schedule (Aust)/Toxic Substance (NZ): n/a
Hazard Category
Hazard Xi Irritant
Poisons Schedule (Aust)/Toxic Substance (NZ): S5

16. OTHER INFORMATION

Issue Date: 20/01/10 **Author:** C.I. Bright
Poisons Information Centres All States: 131126

17. DISCLAIMER

The information contained herein is provided in good faith and is believed to be correct as at the date hereof. No representation as to the comprehensiveness or accuracy of information provided is taken. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly we shall not be responsible for damages of any kind resulting from the use or reliance upon such information.

APPENDIX 1 - INFORMATION SOURCES

1. HAZARD CLASSIFICATION (SEE ALSO CARCINOGENS)

List of Designated Hazardous Substances

NOHSC (National Occupational Health & Safety Commission).

A database of the more common hazardous substances, which provides guidance on the appropriate Risk and Safety information for the MSDS.

Free at:

<<http://www.nohsc.gov.au/OHSInformation/Databases/HazardousSubstances/>>
Classification, hazardous substances, Risk phrases and Safety phrases.

Approved Criteria for Classifying Hazardous Substances

NOHSC (National Occupational Health & Safety Commission).

This document outlines the approved Australian classification criteria used in determining whether a substance is hazardous.

Free at:

http://www.nohsc.gov.au/OHSInformation/NOHSCPublications/fulltext/standards/nohsc1008_toc.htm

2. NOHSC CODES OF PRACTICE

The following codes of practice provide useful information on hazardous substances and Dangerous Goods.

Hazardous Substances

National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC:2007(1994)].

Free

at:

<<http://www.nohsc.gov.au/OHSInformation/NOHSCPublications/fulltext/toc/H3-12.htm>>

National Code of Practice for the Control of Scheduled Carcinogenic Substances [NOHSC:2014(1995)].

Free

at:

<<http://www.nohsc.gov.au/OHSInformation/NOHSCPublications/fulltext/toc/H3-20.htm>>

Dangerous Goods

National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC:1015(2001)].

Free at: http://www.nohsc.gov.au/pdf/standards/NOHSC-2017-2001_COP_pt01.pdf

3. AUSTRALIAN STANDARDS

The Australian Standards for the following classes of Dangerous Goods form an important part of the Dangerous Goods framework and contain useful guidance for the control of the hazards associated with these classes of Dangerous Goods.

Class 2 - Gases

AS/NZS 1596 The storage and handling of LP gas.

AS 1894 Code of practice for the safe handling of cryogenic fluids.

AS 2022 SAA anhydrous ammonia code.

AS 2927 The storage and handling of liquefied chlorine gas.

AS 3961 Liquefied natural gas – storage and handling.

AS 4332 Storage and handling of gases in cylinders.

Class 3 - Flammable and Combustible Liquids

AS 1940 The storage and handling of flammable and combustible liquids.

Class 5 - Oxidizing Agents and Organic Peroxides

AS 2714 The storage and handling of hazardous chemical materials - Class 5.2 substances (organic peroxides).

AS 4326 The storage and handling of oxidising agents.

Class 6 - Toxic Substances

AS/NZS 4452 The storage and handling of toxic substances.

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AS 4081 The storage, handling and transport of liquid and liquefied polyfunctional isocyanates.

Class 8 - Corrosive Substances

AS 3780 The storage and handling of corrosive substances.

Class 9 - Miscellaneous

AS/NZS 4681 The storage and handling of Class 9 (miscellaneous) Dangerous Goods and articles.

Mixed Classes

AS/NZS 3833 The storage and handling of mixed classes of Dangerous Goods in packages and intermediate bulk containers.

Subscription details at: <<http://www.standards.com.au>>

4. EXPOSURE STANDARDS**Exposure Standards for Atmospheric Contaminants in the Occupational Environment.****Exposure Standards Database.****NOHSC (National Occupational Health & Safety Commission).**

The Exposure Standards database is a searchable database providing the airborne concentrations of individual chemical substances, which according to current knowledge should neither, impair the health of, nor cause undue discomfort to, nearly all workers. The exposure standards serve as guides only.

5. PERSONAL PROTECTIVE EQUIPMENT**HAZARDTEXT****Micromedex.**

HAZARDTEXT information to assist with the management of hazardous chemical incidents such as spills or leaks - toxicity, fire and explosion data, chemical reactivity, personal protective equipment and disposal guidelines. A good source of information on personal protective equipment.

Subscription details at: <<http://www.micromedex.com>>

Hazardous substances, chemical spills, emergency procedures, and personal protective equipment.

6. TOXICITY REVIEWS

The following sources provide full text reviews of the toxicity of chemical substances.

Environmental Health Criteria**International Programme on Chemical Safety.**

These criteria are reviews of environmental and toxicological literature on chemicals and physical agents published as a joint venture of the United Nations Environment Programme, the International Labour Organization and the World Health Organization.

Free at: <http://www.inchem.org/pages/ehc.html>

END OF MATERIAL SAFETY DATA SHEET