

Ecosol Tabs

Safety Data Sheet









Safety Data Sheet according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

1 Identification

Product Name: ECOSOL TABS

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:

Concentrated cleaner for automatic dishwashing.

Details of Manufacturer or Importer:

Virtue Plus

13 Fawkner Avenue,

Kings Meadows, Tas, 7249

Phone Number: 03 6344 8400

Emergency telephone number: 1800 205 506, +64 7958 2372

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame over circle

Oxidising Solids 2 H272 May intensify fire; oxidiser.



health hazard

Respiratory Sensitisation 1 H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.



Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



STOT SE 3

H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidiser.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary Statements

P210 Keep away from heat. - No smoking.

P220 Keep/Store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

(Contd. on page 2)

according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 1)

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

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P370+P378 In case of fire: Use to extinguish: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
CAS: 497-19-8	Sodium carbonate Serious Eye Damage/Irritation 1, H318; STOT SE 3, H335	25 - <50%
CAS: 15630-89-4	Disodium carbonate, compound with hydrogenperoxide (2:3) Oxidising Liquids 2, H272; Oxidising Solids 2, H272; Oxidising S	10- <21%
CAS: 9014-01-1	Subtilisin ♦ Respiratory Sensitisation 1, H334; ♦ Serious Eye Damage/Irritation 1, H318; ♦ Skin Corrosion/Irritation 2, H315; STOT SE 3, H335	0.2 - <5%
CAS: 9000-90-2	Amylase, alpha- Respiratory Sensitisation 1, H334	0.1-<1%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with warm water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Contact: No adverse health effects expected.

Eye Contact: Causes serious eye damage.

Ingestion: No adverse health effects expected.

(Contd. on page 3)

Safety Data Sheet according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 2)

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions. Do not use full water jet.

Specific Hazards Arising from the Chemical:

No hazardous decomposition products known.

May intensify fire; oxidiser.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Rinse spill area with plenty of water.

7 Handling and Storage

Precautions for Safe Handling:

May intensify fire; oxidiser

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from extreme temperatures. Do not store above 30°C. Keep away from reducing agents and combustible materials. Recommended storage temperature: 5 - 25 °C.

Storage life: 3 years

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Protective gloves are recommended. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation (Contd. on page 4)

according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 3)

rate and permeation breakthrough time should be considered.

Barrier cream is recommended to prevent skin contact.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form: Solid

Colour: No information available

Odour: Characteristic
Odour Threshold: Not determined.

pH-Value: ~10.8

Melting point/freezing point:
Initial Boiling Point/Boiling Range:
Flash Point:

Not determined
Not applicable
Not applicable

Flammability: May intensify fire; oxidiser

Auto-ignition Temperature: Not determined Decomposition Temperature: Not determined

Explosion Limits:

Lower: Not determined Not determined Not determined Not applicable Density: Not determined

Vapour Density: No information available

Evaporation Rate: Not determined
Solubility in Water: Completely miscible
Partition Coefficient (n-octanol/water): No information available

Viscosity: Not applicable

VOC: 0 %

10 Stability and Reactivity

Possibility of Hazardous Reactions: May intensify fire; oxidiser

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: Reducing agents and combustible materials.

Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological Information

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

CAS: 497-19-8 Sodium carbonate

Oral LD₅₀ 4,090 mg/kg (rat)

(Contd. on page 5)

according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 4)

CAS: 9014-01-1 Subtilisin

Oral LD₅₀ 3,700 mg/kg (rat)

Acute Health Effects

Inhalation:

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin: No adverse health effects expected.

Eye: Causes serious eye damage.

Ingestion: No adverse health effects expected.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity:

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Aai	uatic	TOX	icitv:

CAS: 497-19-8 Sodium carbonate

EC₅₀/48 h 265 mg/l (daphnia)

LC₅₀/96 h 300 mg/l (lepomis macrochirus)

EC₅₀/120hr | 242 mg/l (algae)

Persistence and Degradability: Product is biodegradable.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

(Contd. on page 6)

according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 5)

14 Transport Information

UN Number

ADG. IMDG. IATA UN1479

Proper Shipping Name

ADG, IMDG, IATA OXIDIZING SOLID, N.O.S. (Disodium carbonate,

compound with hydrogenperoxide (2:3)

Dangerous Goods Class

ADG Class: 5.1 Oxidising substances.

Packing Group:

ADG, IMDG, IATA

EMS Number: F-A,S-Q

Hazchem Code: 1Y

Special Provisions: 223, 274

Limited Quantities: 5 kg

Packagings & IBCs - Packing Instruction: P002, IBC08, LP02

Packagings & IBCs - Special Packing Provisions: B3
Portable Tanks & Bulk Containers - Instructions: T1

Portable Tanks & Bulk Containers - Special

Provisions: TP33

15 Regulatory Information

	Australian Inventory of Chemical Substances:		
	CAS: 497-19-8	Sodium carbonate	
	CAS: 15630-89-4	Disodium carbonate, compound with hydrogenperoxide (2:3)	
	CAS: 9014-01-1	Subtilisin	
Ì	CAS: 9000-90-2	Amylase, alpha-	

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 12.04.2019

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC₅₀: Lethal concentration, 50 percent LD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Liquids 2: Oxidising liquids, Hazard Category 2

(Contd. on page 7)

Safety Data Sheet according to WHS Regulations

Printing date 01.06.2024 Revision: 01.06.2024

Product Name: ECOSOL TABS

(Contd. of page 6)

Oxidising Solids 2: Oxidising solids, Hazard Category 2
Acute Toxicity (Oral) 4: Acute toxicity – Category 4
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2
Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1
Respiratory Sensitisation 1: Respiratory sensitisation, Hazard Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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