

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Product identifier**
- **Trade name: DPD No.1**
- **Catalogue number:**
00511051, 511050BT, 4511050BT, 511051BT, 4511051BT, 511052BT, 4511052BT, 511000BT, 511001BT, 511002BT, 00511009BT, 00511059BT, 56T000325, 56T000350
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**
Waterlilly Australia Pty Ltd
(ABN 86 079 391 503)
PO Box 48
Haberfield NSW 2045
Phone : 02 9798 9975
Email : water-lilly@bigpond.com
- **Emergency telephone number:**
NSW Poisons Information Centre
The Children's Hospital at Westmead
Locked Bag 4001
Westmead NSW 2145

Phone : 13 11 26 (24 Hour National Hotline)

2 Hazard(s) Identification

- **Classification of the substance or mixture** The product is not classified as hazardous.
- **Label elements**
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **Other hazards** No further relevant information available.

3 Composition and Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of organic and inorganic compounds

• Composition and Information on Ingredients:

CAS: 7757-82-6	sodium sulphate	25–35%
EINECS: 231-820-9		

4 First Aid Measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink 1-2 glasses of water.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
after swallowing:
thirst
gastric or intestinal disorders

(Contd. on page 2)

— AU —

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Trade name: DPD No.1

(Contd. of page 1)

sickness
 abdominal pain
 general feeling of sickness
 irritations
 cardiovascular disorders

· **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
 The product is not combustible.
 Formation of toxic gases is possible during heating or in case of fire.
 nitrous gases
 Sulfur oxides (SO_x)
 Nitrogen oxides (NO_x)
 Phosphorus oxides (P_xO_x)
 Potassium oxide
 Sodium oxide
- **Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
- **Additional information**
 Collect contaminated fire fighting water separately. It must not enter the sewage system.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Ambient fire may liberate hazardous vapours.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** No special measures required.
- **Advice for emergency responders:** Protective equipment: see section 8
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
 Ensure adequate ventilation.
 Pick up mechanically.
 Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and Storage

- **Precautions for safe handling**
- **Advice on safe handling:** No special precautions are necessary if used correctly.
- **Hygiene measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Wash hands before breaks and at the end of work.
 Do not eat, drink or smoke when using this product.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
 Protect from exposure to the light.
 Protect from humidity and water.
 This product is hygroscopic.

(Contd. on page 3)

— AU —

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Trade name: **DPD No.1**

(Contd. of page 2)

- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

CAS: 7757-82-6 sodium sulphate

TLV (USA)	Short-term value: NIC-0.2 mg/m ³ thoracic fraction of aerosol
-----------	---

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

- **Personal protective equipment:**

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

- **Breathing equipment:** Use respiratory protective device against the effects of fume/dust/aerosol.

- **Recommended filter device for short term use:** Filter P1

- **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

- **Penetration time of glove material**

Value for the permeation: Level ≤ 1 (10 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses

use against the effects of fumes / dust

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**

Do not allow product to reach sewage system or any water course.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **Appearance:**

Form / Physical state:	Tablets
------------------------	---------

Color:	White
--------	-------

- **Odor:** Odorless

- **Odor threshold:** Not applicable.

- **pH-value (13.5 g/l) at 20°C (68°F):** 6.3

- **Melting point/freezing point:** Not determined.

- **Initial boiling point and boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** The product is not combustible.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Flammability or explosive limits:**

Lower:	Not applicable.
--------	-----------------

Upper:	Not applicable.
--------	-----------------

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Trade name: DPD No.1

(Contd. of page 3)

· Oxidizing properties:	none
· Vapor Pressure:	Not applicable.
· Density:	Not determined.
· Relative density:	Not determined.
· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility(ies) Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	Not applicable.
· Solvent content: Solids content:	100.0 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** Dust can combine with air to form an explosive mixture.
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions**
Reacts with acids, alkalis and oxidizing agents.
--> Forms heat.
Reacts with ammonia (NH₃).
- **Conditions to avoid** Strong heating (decomposition)
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** see section 5

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

CAS: 7757-82-6 sodium sulphate

Dermal LD50. >2000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Information on components:**
CAS 6283-63-2: DPD may cause allergic skin reaction

CAS: 7757-82-6 sodium sulphate

Irritation of skin	OECD 404	(rabbit: no irritation)
--------------------	----------	-------------------------

Irritation of eyes	OECD 405	(rabbit: slight irritation)
--------------------	----------	-----------------------------

- **Sensitization:** Based on available data, the classification criteria are not met.
- **Information on components:** CAS 6283-63-2: Sensitization possible in predisposed persons.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** The following statements refer to the mixture:
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. on page 5)

— AU —

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Trade name: DPD No.1

(Contd. of page 4)

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 7757-82-6 sodium sulphate

EC50	2564 mg/l/48h (Daphnia magna) (IUCLID)
LC50	120 mg/l/96h (mosquitofish) (IUCLID)
	13500–14500 mg/l/96h (fathead minnow)

· **Bacterial toxicity:**

sulfates toxic > 2.5 g/l

CAS: 7757-82-6 sodium sulphate

EC10	>1000 mg/l (Pseudomonas putida) (16h) (IUCLID)
------	---

· **Other information:**

Toxic for fish:
sulfates > 7 g/l

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Other adverse effects**

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies.

Avoid transfer into the environment.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA** none

· **UN proper shipping name**

· **ADG, IMDG, IATA** none

· **Transport hazard class(es)**

· **ADG, IMDG, IATA**

· **Class** none

· **Packing group**

· **ADG, IMDG, IATA** none

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Not applicable.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 31.03.2020

Reviewed on 31.03.2020

Trade name: **DPD No.1**

(Contd. of page 5)

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

• **Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **Australian Inventory of Chemical Substances (AICS)**

All ingredients are listed.

• **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredient is listed.

• **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

• **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:**

None of the ingredients is listed.

• **Information about limitation of use:** Not required.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Date of preparation / last revision** 31/03/2020 / 6

• **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ACGIH[®] - American Conference of Governmental Industrial Hygienists

•A1 - Confirmed human carcinogen

•A2 - Suspected human carcinogen

•A3 - Confirmed animal carcinogen with unknown relevance to humans

•A4 - Not classifiable as a human carcinogen

•A5 - Not suspected as a human carcinogen

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

• **Sources**

Data arise from safety data sheets, reference works and literature.

Data arise from safety data sheets, reference works and literature.

• *** Data compared to the previous version altered.**