

# Safety Data Sheet

## according to WHS Regulations

Printing date 05.04.2024

Reviewed on 04.04.2024

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

### 1 Identification

- **Product identifier**
- **Trade name: Alka-M-Photometer**
- **Catalogue number:** 00513211, 513210BT, 513211BT, 4513210BT, 4513211BT, 5132100BT, 00513219BT
- **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 compounds

#### · **Composition and Information on Ingredients:**

CAS: 124-04-9	adipic acid	⚠ Eye Irritation 2A, H319	2.5–5%
EINECS: 204-673-3			
Index number: 607-144-00-9			
RTECS: AU 8400000			

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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**  
irritations  
after swallowing of large amounts:

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thirst

gastric or intestinal 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:** Water, Carbon dioxide (CO<sub>2</sub>), Foam, Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:**  
For this substance / mixture no limitations of extinguishing agents are given.
- **Special hazards arising from the substance or mixture**  
Can burn in fire.  
Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
nitrous gases  
Sulfur oxides (SO<sub>x</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)
- **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:** Wear protective equipment. Keep unprotected persons away.
- **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 section 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.  
Do not eat, drink or smoke when using this product.  
Wash hands before breaks and at the end of work.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** see chapter 10
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Protect from exposure to the light.  
Store in dry conditions.  
Protect from humidity and water.
- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)

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- **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: 124-04-9 adipic acid

TLV (USA) Long-term value: 5 mg/m<sup>3</sup>

- **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.

- **Eye protection:**

Safety glasses

use against the effects of fumes / dust

- **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:  $\geq 0.11$  mm

- **Penetration time of glove material**

Value for the permeation: Level  $\leq 1$  (10 min)

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

- **Body protection:** Protective work clothing

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

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

- **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**

- **Physical state**

Solid

- **Form**

Tablets

- **Color:**

Orange

- **Odor:**

Odorless

- **Odor threshold:**

Not applicable.

- **Melting point/freezing point:**

Not determined.

- **Initial boiling point and boiling range:**

Not determined.

- **Flammability**

Can burn in fire.

- **Explosive properties:**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

- **Lower and upper explosion limit**

Lower:

Not determined.

Upper:

Not applicable (solid).

- **Flash point:**

196°C (384.8°F) (CAS: 124-04-9 adipic acid)

- **Auto igniting:**

Not applicable (solid).

- **Decomposition temperature:**

Not applicable.

- **pH-value (8.8 g/l) at 20°C (68°F):**

3.5

- **Kinematic viscosity**

Not applicable (solid).

- **Solubility(ies)**

- **Water:**

Soluble.

- **Partition coefficient (n-octanol/water):**

Not applicable (mixture).

- **Vapor Pressure:**

Not applicable.

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· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Corrosive to metals</b>	Based on available data, the classification criteria are not met.
· <b>Other safety characteristics</b>	
· <b>Oxidizing properties:</b>	none
· <b>Additional information</b>	
· <b>Solids content:</b>	100 %

## 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 oxidizing agents.  
--> Forms heat.
- **Conditions to avoid** To avoid thermal decomposition do not overheat.
- **Incompatible materials:** steel
- **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.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>CAS: 124-04-9 adipic acid</b>		
Oral	LD50	5700 mg/kg (rat) (MERCK)
Dermal	LD50	>7940 mg/kg (rabbit) (Registrant, ECHA: no deaths occurred)

- **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.

· <b>Information on components:</b>		
<b>CAS: 124-04-9 adipic acid</b>		
Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 492	(rabbit: severe irritations)

- **Sensitization:** Based on available data, the classification criteria are not met.

· <b>Information on components:</b>		
<b>CAS: 124-04-9 adipic acid</b>		
Sensitization	OECD 406	(guinea pig: negative) (IUCLID)

- **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.

- **Information on components:**  
OECD 414: Teratogenicity testing  
OECD 473: Mutagenicity testing  
OECD 471, 474, 476, 487: Germ cell mutagenicity testing

<b>CAS: 124-04-9 adipic acid</b>		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test) (IUCLID)	

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OECD 474 (negative) (Mammalian Erythrocyte Micronucleus Test)

- **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.
- **Other information** No further relevant information available.

## 12 Ecological Information

- **Ecotoxicity**

- **Aquatic toxicity:**

**CAS: 124-04-9 adipic acid**

LC50	511 mg/l/48h (gold orfe)
EC50	86 mg/l/48h (Daphnia magna) (OECD 202)
IC50	31 mg/l/72h (Desmodesmus subspicatus) (IUCLID)
LC50	97 mg/l/96h (fathhead minnow) (ECOTOX)

- **Bacterial toxicity:**

**CAS: 124-04-9 adipic acid**

EC50	92 mg/l (Pseudomonas putida) (DIN 38412) (IUCLID)
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- **Persistence and degradability**

**CAS: 124-04-9 adipic acid**

OECD 301 B	100 % / 28 d (readily biodegradable) (CO2 Evolution Test)
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- **Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient  
log Pow < 1 = Does not accumulate in organisms.

**CAS: 124-04-9 adipic acid**

log Pow	0.081 (.) (25°C, OECD 107)
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- **Mobility in soil** No further relevant information available.
- **Other adverse effects** Avoid transfer into the environment.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |                                     |      |
|-------------------------------------|------|
| · <b>UN-Number</b>                  |      |
| · <b>ADG, IMDG, IATA</b>            | none |
| · <b>UN proper shipping name</b>    |      |
| · <b>ADG, IMDG, IATA</b>            | none |
| · <b>Transport hazard class(es)</b> |      |
| · <b>ADG, IMDG, IATA</b>            |      |
| · <b>Class</b>                      | none |

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· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	none
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	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 Industrial Chemicals (AIIC)**  
CAS 62625-32-5 Bromocresol green sodium salt is not listed, but CAS 76-60-8 Bromocresol green is.

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.

- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

- **Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)**

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.

- **Relevant phrases**

H319 Causes serious eye irritation.

- **Version number / date of revision:** 9 / 04.04.2024

- **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 relatif au transport international 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

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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**· Sources**

ECHA: European CHemicals Agency <http://echa.europa.eu>  
ECOTOX Database  
IUCLID (International Uniform Chemical Information Database)  
Data arise from safety data sheets, reference works and literature.

**· \* Data compared to the previous version altered.**

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