Tintometer[®] Group Water Testing



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Safety data sheet according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Product name: Alka-M-Photometer
- · Catalog number: 00513211, 513210BT, 513211BT, 4513210BT, 4513211BT, 5132100BT, 00513219BT, SDT342
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier:

Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond® House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

Informing department: e-mail: sds@lovibond.com Product Safety Department

· 1.4 Emergency telephone number:

+44 1235 239670 Languages: English

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified as hazardous according to the GB CLP regulation.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

EUH210 Safety data sheet available on request.

- · 2.3 Other hazards No further relevant information available.
- · Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of organic compounds.

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· Dangerous components:

CAS: 124-04-9 EINECS: 204-673-3 Index No: 607-144-00-9

Reg.nr.: 01-2119457561-38-XXXX

Eye Irrit. 2, H319

2.5–5%

· Additional information For the wording of the listed hazard phrases refer to section 16.

adipic acid

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink 1-2 glasses of water.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed:

irritations

after swallowing of large amounts:

thirst

gastric or intestinal trouble

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

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents Water, Carbon dioxide (CO2), Foam, Fire-extinguishing powder
- For safety reasons unsuitable extinguishing agents

For this substance / mixture no limitations of extinguishing agents are given.

 \cdot 5.2 Special hazards arising from the substance or mixture

combustible

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

nitrous gases

Sulphur oxides (SOx)

Nitrogen oxides (NOx)

Carbon monoxide (CO) and carbon dioxide (CO₂)

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

SECTION 6: Accidental release measures

- · 6.1 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
- · 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.
- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- · Advice on safe handling: No special precautions necessary if used correctly.
- Hygiene measures:

The usual precautionary measures should be adhered to general rules for handling chemicals.

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

Wash hands during breaks and at the end of the work.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and containers: Store in 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 the effects of light.

Store under dry conditions.

Protect from humidity and keep away from water.

- Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

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

DNELs

Derived No Effect Level (DNEL)

CAS: 124-04-9 adipic acid				
Oral	DNEL	19 mg/kg (Consumer / acute / systemic effects)		
		19 mg/kg (Consumer / long-term / systemic effects)		
Dermal	DNEL	38 mg/kg (Worker / acute / systemic effects)		
		38 mg/kg (Worker / long-term /systemic effects)		
		19 mg/kg (Consumer / acute / systemic effects)		
		19 mg/kg (Consumer / long-term / systemic effects)		
Inhalative	DNEL	5 mg/m³ (Worker / acute / local effects)		
		264 mg/m³ (Worker / acute / systemic effects)		
		5 mg/m³ (Worker / long-term / local effects)		
		264 mg/m³ (Worker / long-term /systemic effects)		
		65 mg/m³ (Consumer / acute / systemic effects)		
		65 mg/m³ (Consumer / long-term / systemic effects)		

· PNECs

Predicted No Effect Concentration (PNEC)

CAS: 1	CAS: 124-04-9 adipic acid				
PNEC	59.1 mg/l (Sewage treatment plant)				
	0.0126 mg/l (Marine water)				
	0.46 mg/l (Aquatic intermittent release)				
	0.126 mg/l (Fresh water)				
PNEC	0.0228 mg/kg (Soil)				
	0.0484 mg/kg (Marine sediment)				
	0.484 mg/kg (Fresh water sediment)				

· Additional information: The lists that were valid during the compilation were used as basis.

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· 8.2 Exposure controls

Engineering measures:

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

· Individual protection measures, such as personal protective equipment

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

· Eye/face protection

Safety glasses

use against the effects of fumes / dust

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

Hand protection

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Other skin protection (body protection): Protective work clothing.
- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P1
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state Solid. · Form: **Tablets** · Colour: Orange · Odour: Odourless · Odour threshold: Not applicable. · Melting point/Freezing point: Not determined.

· Boiling point or initial boiling point and boiling range Not determined. Flammability combustible

· Explosive properties: The product is not capable of dust explosion in the form supplied;

enrichment with fine dust causes risk of dust explosion

· Lower and upper explosion limit

Not determined. Lower: Upper: Not applicable (solid).

· Flash point: 196°C (CAS: 124-04-9 adipic acid)

Auto-ignition temperature: Not applicable (solid). Decomposition temperature: Not applicable.

· pH (8.8 g/l) at 20°C 3.5

 Kinematic viscosity Not applicable (solid).

· Solubility

· Water: Soluble

· Partition coefficient n-octanol/water (log value) Not applicable (mixture). Not applicable.

· Vapour pressure:

· Density and/or relative density

Density: Not determined. Not determined. · Relative density: Not applicable (solid). · Relative gas density Particle characteristics Not determined.

· 9.2 Other information

Information with regard to physical hazard classes

· Corrosive to metals Void

· Other safety characteristics

 Oxidising properties: none

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Additional information

Solids content: 100 %

SECTION 10: Stability and reactivity

- · 10.1 Reactivity Dust can combine with air to form an explosive mixture.
- · 10.2 Chemical stability Stable at ambient temperature (room temperature).
- 10.3 Possibility of hazardous reactions

Reacts with oxidizing agents

- --> forms heat
- · 10.4 Conditions to avoid To avoid thermal decomposition do not overheat.
- · 10.5 Incompatible materials: steel
- 10.6 Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

CAS: 124-04-9 adipic acid LD50 5700 mg/kg (rat) Oral (MERCK) Dermal LD50 >7940 mg/kg (rabbit)

(Registrant, ECHA: no deaths occurred)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.

Information on components:

CAS: 124-04-9 adipic acid

Irritation of skin OECD 404 (rabbit: no irritation) Irritation of eyes OECD 492 (rabbit: severe irritations)

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Information on components:

CAS: 124-04-9 adipic acid

Sensitisation 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

CAS: 124-04-9 adipic acid

OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test) (IUCLID)

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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

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Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

SECTION 12: Ecological information

· 12.1 Toxicity

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)

· 12.2 Persistence and degradability

CAS: 124-04-9 adipic acid

OECD 301 B 100 % / 28 d (readily biodegradable) (CO2 Evolution Test)

· 12.3 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)

- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects Avoid transfer into the environment.
- · Water hazard:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- · 13.1 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.

Void

· European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA

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Product name: Alka-M-Photometer

	(+
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMC instruments) Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act UK
- · Regulated explosives precursors

None of the ingredients is listed.

- · Regulated poisons
- None of the ingredients is listed.
- · Reportable explosives precursors

None of the ingredients is listed.

- · Reportable poisons
- None of the ingredients is listed.
- · Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated
- Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any substances of very high concern above the legal concentration limit of ≥ 0.1% (w / w).

Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of ≥ 0.1% (w / w).

- · Directive 2012/18/EU (SEVESO III):
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Information about limitation of use: Not required.

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

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Training hints Provide adequate information, instruction and training for operators.

Relevant phrases

H319 Causes serious eye irritation.

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

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous

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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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.

GB