




Section 1 Identification of the substance/mixture and the company

1.1	Product identifier	Alka-M
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Use of substance	Reagent for water analysis
1.3	Supplier	WAPOTEC GmbH Franz-Sauer-Strasse 44 A-5020 Salzburg Tel: +43 662 434342-0 Fax: +43 662 434342-3
	Contact	Mr. G. Weiss Email: office@wapotec.at
1.4	Emergency phone	+43 662 43 43 42-0 Office hours: MO - TH: 8.00 - 16.00, FR: 8.00 - 12.00
		Toxicity information centre Vienna: Phone: +43 1 406 43 43; Available 0-24h

Section 2 Hazards identification


2.1	Hazard classification of substance or mixture	 According to Directive (EC) N° 1272/2008 Not applicable. The product is not classified as dangerous.
2.2	Label elements	 According to Directive (EC) 1272/2008 Not applicable. The product does not require hazard labeling according to Directive (EC) N° 1272/2008.  Danger defining components for labeling Not applicable.
2.3	Other hazards	Not applicable.

Section 3 Composition/information on ingredients

3.2	Mixtures
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 Description

Mixture contains organic compounds.





 Dangerous components

Name	CAS # / EC # / Index #	Conc %	Classification according to	
			Regulation (EC) 1272/2008*	
Adipic acid	124-04-9/ 204-673-3/ 607-144-00-9	2,5-5	Eye Irrit. 2	H319

Additional information: For the wording of the listed hazard phrases see section 16.


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 (at least 15 min). If symptoms persist consult doctor.
-  After swallowing
- Rinse out mouth and then drink at least 1-2 glasses of water.
In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, acute and delayed
- Irritation
After swallowing of large amounts:
Thirst
Gastric or intestinal trouble
- 4.3 Indications for immediate medical attention or special treatment needed
- No further relevant information available.

Section 5

Fire-fighting measures

- 5.1 Extinguishing media
-  Suitable extinguishing media
- Water, carbon dioxide (CO₂), foam, fire-extinguishing powder.

- 5.2 Special hazards arising from the substance or mixture
- Combustible
Formation of toxic gases is possible during heating or in case of fire.
Nitrous gases
Sulphur oxides (SO_x)
Nitrogen oxides (NO_x)
Carbon monoxide (CO) and carbon dioxide (CO₂)
- 5.3 Advice for fire-fighters
- ☉ 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 vapors.



Section 6

Accidental release measures

- 6.1 Personal precautions, protective equipment and suitable 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 section 13.
- 6.4 Additional information
- See section 8 for information on personal protection equipment.
See section 13 for information on disposal.



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.
Wash hands during breaks and at the end of the work.
Do not eat, drink or smoke when using the product.

7.2 Conditions for safe storage including any incompatibilities

☉ Information about storage in one common storage facility

Not required.

☉ Design of storage rooms and container

Store in cool location.
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 uses

No further relevant information available.



Section 8

Exposure controls and personal protection

8.1 Control parameters

☉ Components with limit values that require monitoring at the workplace

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

DNELs

CAS No: 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)
		38mg/kg (worker /long-term/systemic effects)
Inhalative		19 mg/kg (consumer /acute/systemic effects)
		19 mg/kg (consumer/ long-term/systemic effects)
	DNEL	5 mg/m ³ (worker/acute/local effects)
		264 mg/m ³ (worker/acute/systemic effects)
		5 mg/m ³ (worker /long-term/local effects)
		264 mg/m ³ (worker/long-term/systemic effects)
		65 mg/m ³ (consumer/acute/systemic effects)
		65 mg/m ³ (consumer /long-term/systemic effects)

PNECs

CAS No: 124-04-9 adipic acid

PNEC	59,1 mg/l (sewage treatment plant)
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	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/l (marine sediment)
	0,484 mg/l (fresh water sediment)

 Additional information

The lists that were valid during the compilation were used as basis.


8.2

Exposure controls

 Engineering measures


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

Personal protective equipment:

 Breathing equipment

Use breathing protection against the effects of fumes/dust/aerosol.

Recommended filter device for short term use: Filter P1

 Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Glove material:


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 safety glasses against the effects of fumes / dust.

 Body protection

Protective working clothing.

Limitation and supervision of exposure into the environment

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	
	Appearance	Tablets
	Colour	Orange
	Odour	Odourless
	Odour threshold	Not applicable
	pH-value (8.8 g/l) at 20°C	3.5
	Melting point / Freezing point	Not determined
	Boiling point / Boiling range	Not determined
	Flash point	Not determined
	Flammability (solid, gas)	Not determined
	Decomposition temperature	Not applicable
	Auto ignition temperature	Product is not self-igniting
	Explosive properties	Product is not explosive. The product is not capable of dust explosion in the form supplied, enrichment with fine dust causes risk of dust explosion.
	Flammability of explosive limits:	
	Lower explosion limit	Not determined
	Upper explosion limit	Not determined
	Oxidizing properties	None
	Vapor pressure	Not applicable
	Density	Not determined
	Relative density	Not determined
	Vapour density	Not applicable
	Evaporation rate	Not applicable
	Solubility(ies): water:	Soluble
	Partition coefficient: n-octanol-water	Not applicable
	Viscosity	Not applicable
	Solvent content:	
	Organic solvents:	0.0 %
	Solids content:	100.0 %

- 9.2 Other information
No further relevant information available.

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 toxicological effects
- Acute toxicity
Based on the available data, the classification criteria are not met.
 - LD/LC50 values that are relevant for classification
CAS: 124-04-9 adipic acid

Oral	LD50	5700 mg/kg (rat) (MERCK)
Dermal	LD50	>7940 mg/kg (rabbit) (Registrant, ECHA: no deaths occurred)
Inhalative	LC50.	>7.7 mg/l/4h (rat) (dust, aerosol) (Registrant, ECHA: no deaths occurred)

- Primary irritant effect:
 - Skin corrosion/irritation
Based on the available data, the classification criteria are not met.
 - Serious eye damage/irritation
Based on the 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 405	(rabbit: severe irritations)

 Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.


Information on components:

CAS: 124-04-9 adipic acid

Sensitisation	OECD 406	(guinea pig: negative) (UCLID)
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 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)


The following statements refer to the mixture:

 Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

 Carcinogenity

Based on the available data, the classification criteria are not met.

 Reproductive toxicity

Based on the available data, the classification criteria are not met.

 STOT (specific target organ toxicity) – single exposure

Based on the available data, the classification criteria are not met.

 STOT (specific target organ toxicity) - repeated exposure

Based on the available data, the classification criteria are not met.

 Aspiration hazard

Based on the available data, the classification criteria are not met.

Information on components

CAS: 124-04-9 adipic acid

OECD 471	(negative) (Bacterial Reverse Mutation Test – Ames test) (UCLID)
OECD 474	(negative) (Mammalian Erythrocyte Micronucleus test)

 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 by us.

 Aquatic toxicity

CAS-No. 124-04-9 adipic acid

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

 Bacterial toxicity

CAS-No. 124-04-9 adipic acid

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

CAS-No. 124-04-9 adipic acid

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

CAS-No. 124-04-9 adipic acid

Log Pow	0.081 (.) (25°C, OECD 107)
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12.4 Mobility in soil

No further 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 Other adverse effects

Avoid transfer in 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:

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.

 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**

No dangerous good according to regulation for transport of dangerous goods.

14.1 UN-Number

Not applicable.

14.2 Proper UN-shipping name

Not applicable.

14.3 Transport hazard class

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for the user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and according to IBC-Code

Not applicable.

☾ Transport/Additional information

Not dangerous according to the above specifications.

Section 15 **Regulatory information**

15.1 Safety-, health-, ambient- and legislation specific instructions for substance or mixture

☾ Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer
None of the ingredients is listed.

☾ Directive 2012/18/EU (SEVESO III) Named dangerous substances – ANNEX I
None of the ingredients is listed.

☾ Regulation (EC) No 649/2012
None of the ingredients is listed.


☾ Information about limitation of use
Not required.

15.2 Chemical safety assessment


A chemical safety assessment has not been carried out.

Section 16 | **Other information**

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship.

 Relevant H-phrases


H319 Causes serious eye irritation.

 Training hints

Provide adequate information, instruction and training for operators.

 Edition Replaces the previous versions

 Written by WAPOTEC GmbH

 Short cut
n. t. not tested
n. a. not applicable
PBT persistent, bio-accumulative, toxic
vPvB high persistent, high bio-accumulative

