

Aluminium No.2 Photometer

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

1.1 - Product identifier

Trade name/designation Aluminium No.2 Photometer

Chemical name

Product-type Mixture

Product code TbsPALm2

1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses - Reagent for water analysis

1.3 - Details of the supplier of the safety data sheet

Water-I.D. GmbH

Daimlerstr. 20

76344 Eggenstein Germany

Telephone : +49 (0) 721 - 78 20 29 - 0 Fax +49 (0) 721 - 78 20 29 - 11

Website www.water-id.com

EHS / Compliance: lab@water-id.com

1.4 - Emergency telephone number

- Poison Control Center Munich

Tel: +49 (0) 89 / 19 24 0

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Sol. 2	Flammable solid. - Category 2
Skin Sens. 1	Skin sensitization - Category 1

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: methenamine, hexamethylenetetramine (CAS No.: 100-97-0)

Signal word : Warning

Hazard pictograms



Hazard statements

H228	Flammable solid
H317	May cause an allergic skin reaction

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical]equipment.
P261	Avoid breathing dust.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use Carbon dioxide (CO ₂), dry powder, alcohol-resistant foam, Water spray jet, extinguishing powder for extinction.
P501	Dispose of container to an appropriate recycling or disposal facility.

EUH-phrases

EUH208	Contains methenamine, hexamethylenetetramine (100-97-0) . May produce an allergic reaction
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2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
methenamine, hexamethylenetetramine	CAS No. : 100-97-0 Index No. : 612-101-00-2 EC No. : 202-905-8	< 25	Flam. Sol. 2 - H228 Skin Sens. 1 - H317	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

<u>Following inhalation</u>	- Provide fresh air. - When in doubt or if symptoms are observed, get medical advice.
<u>Following skin contact</u>	- After contact with skin, wash immediately with plenty of water and soap. - In case of skin reactions, consult a physician.
<u>After eye contact</u>	- Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	- Rinse mouth thoroughly with water. - Do NOT induce vomiting.

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

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- Causes skin irritation.

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Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - No information available.

Hazardous decomposition products

- Carbon dioxide (CO₂)
- Carbon monoxide
- Nitrogen oxides (NO_x)
- Hydrogen cyanide (hydrocyanic acid)

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.
- Avoid dust formation.

For emergency responders - No information available.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up

- Take up mechanically.
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

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- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Generation/formation of dust
- Avoid: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only in well-ventilated areas.

Advices on general occupational hygiene

- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Flammable solids
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Protect against: Heat

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat

- Suitable eye protection: Eye glasses with side protection

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.



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- Suitable material: NBR (Nitrile rubber)

- Barrier creams are not substitutes for body protection.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Tablets
<u>Colour</u>	White	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		8,5 10,5 g/l	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		100 %	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

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10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- In case of warming: Ignition hazard
- In fine dispersion/spraying/misting: Danger of dust explosion.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

Toxicity : Substances

methenamine, hexamethylenetetramine (100-97-0)	
LD50 oral (rat)	> 20000 mg/kg
LD50 dermal (rat)	> 2000 mg/kg

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Skin sensitization - Category 1 - May cause an allergic skin reaction

- May cause sensitization by skin contact.
- May cause an allergic skin reaction.

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

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STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

methenamine, hexamethylenetetramine (100-97-0)

EC50 48 hr crustacea	36000 mg/l
LC50 96 hr fish	49000 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

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<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- No information available.

SECTION 14: Transport information

14.1 - UN number

<u>UN number (ADR)</u>	:	UN1328
<u>UN number (RID)</u>	:	UN1328
<u>UN number (ADN)</u>	:	UN1328
<u>UN number (IMDG)</u>	:	UN1328
<u>UN number (IATA)</u>	:	UN1328

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	HEXAMETHYLENE-TETRAMINE
<u>UN proper shipping name (RID)</u>	:	HEXAMETHYLENE-TETRAMINE
<u>UN proper shipping name (ADN)</u>	:	HEXAMETHYLENE-TETRAMINE
<u>UN proper shipping name (IMDG)</u>	:	HEXAMETHYLENE-TETRAMINE
<u>UN proper shipping name (IATA)</u>	:	HEXAMETHYLENE-TETRAMINE

14.3 - Transport hazard class(es)

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ADR Transport hazard class(es) : 4.1

ADR Classification code: : F1

Pictograms



Transport hazard class(es) (RID) : 4.1

Pictograms



Transport hazard class(es) (ADN) : 4.1

Pictograms



Transport hazard class(es) (IMDG) : 4.1

Pictograms



Transport hazard class(es) (IATA) : 4.1

Pictograms



14.4 - Packing group

Packing group : III

Packing group (RID) : III

Packing group (ADN) : III

Packing group (IMDG) : III

Packing group (IATA) : III

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	
<u>ADR Limited quantity (LQ)</u>	:	5 kg
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P002 IBC08 R001
<u>ADR Special packing provisions</u>	:	B3
<u>ADR Mixed packing provisions</u>	:	MP10
<u>Instructions for portable tanks and bulk containers</u>	:	T1
<u>Special provisions for portable tanks and bulk containers</u>	:	TP33
<u>ADR tank code</u>	:	SGAV
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	
<u>Special provisions - Bulk</u>	:	VC1 VC2
<u>Special provisions - Operation</u>	:	
<u>ADR Hazard identification number (Kemler No.)</u>	:	40

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

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IATA

<u>PCA - Excepted quantities</u>	:
<u>PCA - Limited Quantity - Packing Instructions</u>	:
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:
<u>PCA - Packing Instructions</u>	:
<u>PCA - Maximum Net Quantity per Package</u>	:
<u>CAO - Packing Instructions</u>	:
<u>CAO - Maximum Net Quantity per Package</u>	:
<u>Special Provisions</u>	:
<u>ERG Code</u>	:

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Description of the amendments
1	17.12.2018	MSDS creation.

Abbreviations and acronyms - See overview table at www.euphrac.eu

Texts of the regulatory sentences

Flam. Sol. 2	Flammable solid. - Category 2
H228	Flammable solid
H317	May cause an allergic skin reaction
Skin Sens. 1	Skin sensitization - Category 1

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