# Safety data sheet according to Regulation (EC) 1907/2006



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# Identification of the substance/mixture and the company

Product identifier Aluminium No. 2

Use of substance Reagent for water analysis

Supplier WAPOTEC GmbH

Carola-Blome-Str. 7 A-5020 Salzburg

Tel: +43 662 434342-0 Fax: +43 662 434342-3

Contact Mr. G. Weiss

Email: office@wapotec.at

Emergency phone +43 662 43 43 42-0

Office hours:

MO - TH: 8.00 - 16.00 FR: 8.00 - 12.00



#### 2 Hazards identification

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



GHS02 flame

Flam. Sol. 2 H228 Flammable solid.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi, Sensitising

R43; May cause sensitissation by skin contact.



F; highly flammable

R11: Highly flammable.

C Label elements



Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms GHS02, GHS07

Signal word Warning

Hazard-determining components of labelling: methenamine

#### C Hazard statements

H228 Flammable solid. H317 May cause an allergic skin reaction.

## Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.



#### 3 Composition/information on ingredients

Chemical characterization: Mixture

C Dangerous components:

CAS: 100-97-0 methenamin

EINECS: 202-905-8

Index number: 612-101-00-2

🔀 Xi; R43 🔥 F R11

90-100%

Warning: 🏵 Flam. Sol. 2, H228; 🗘 Skin Sens. 1, H317

- REACH Pre-registered substances All components are REACH pre-registered.
- Additional information For the wording of the listed risk phrases refer to section 16.



#### 4 First-aid measures

- C Description of first aid measures
- © General information Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air. Seek medical treatment in case of complaints.
- After skin contact Instantly rinse with water. Seek medical treatment.
- After eye contact Rinse opened eye for several minutes (at least 10 min) under running water. Seek medical treatment.
- After swallowing Rinse out mouth and then drink 1-2 glasses of water. Seek medical treatment in case of complaints.
- Most important symptoms and efects, both acute and delayed: After inhalation: coughing, asthma attacks, mucous membrane irritation. After swallowing of large amounts: gastric or intestinal trouble, sickness, vomiting, pain. Danger risk of skin sensitization

# 5 Fire-fighting measures



- Extinguishing media
- Suitable extinguishing agents Alcohol-resistant foam, Water haze, Carbon dioxide (CO<sub>2</sub>), Fire-extinguishing powder
- Special hazards arising from the substance or mixture

Combustible

Development of hazardous combustion gases or vapours possible in the event of fire. Nitrogen oxides ( $NO_x$ ), Hydrogen cyanide (HCN), ammonia (NH3), formaldehyde.

- 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.



#### 6 Accidental release mesures

- Person precautions, protective equipment and emergency procedures: Avoid causing dust. Ensure adequate ventilation. Use breathing protection against the effects of fumes/dust/aerosol.
- **Environmental precautions**: Do not allow product to reach sewage system or water bodies. Damp down gases/fumes/haze with water spray jet
- Methods and material for containment and cleaning up:

Collect mechanically, Dispose of contaminated material as waste according to item 13.

Reference to other sections: See Section 8 for information on personal protection equipment.



# 7 Handling and storage

- C Handling
- Precautions for safe handling Work only in fume cupboard.
- Information about protection against explosions and fires:

Protect against electrostatic charges. Dust can combine with air to form an explosive mixture. Fumes can combine with air to form an explosive mixture. Keep ignition sources away – Do not smoke.

- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store in cool location.
- Information about storage in one common storage facility: Store away from oxidizing



agents.

#### Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Protect from humidity and keep away from water. This product is hygroscopic. Protect from the effects of light.

Recommended storage temperature: 20°C +/-5°C



## 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
- 100-97-0 methenamine (90-100%)

OEL (Sweden) Short-term value: 5mg/m³ Long-term value: 3mg/m³

S

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

- Personal protective equipment
- © General protective and hygienic measures Avoid contact with the eyses and skin. Do not eat, drink or smoke while working.
- Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- Recommended filter device for short term use: Filter P2
- **Protection of hands**: Preventive skin protection by use of skin-protection 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

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Value for the permeation: Level  $\geq 1$  (>10 min)

- Eye protection: Use against the effects of fumes / dust. Tightly sealed safety glasses.
- Body protection: Protective work clothing



# 9 Physical and chemical properties

Information basic physical and chemical properties Appearance:

Form: TabletsColour: White

Ordour: Weak, characteristic



pH-value (9g/l) at 20°C
7.5

Melting point/ Metling range:
280, Subl. °C

Boiling point / Boiling range: Not determined

Flash point: >100°C

Inflammability (solid,

gaseous)

Highly flammable.

The following applies in general to flammable organic substances/preparations: Dust explosion possible if in

powder or granular form (fine distribution), mixed with air.

Critical values for explosion:

Lower

20 g/m<sup>3</sup>

C Density at 20°C 1.331 g/cm³

Settled apparent density at 20°C 600kg/m³

Solubility in / Miscibility with

Water at 20°C:

895 g/l

Solvent content:

Organic solvents:

0.0 %

100 %

Solids content:

(

### 10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: strong heating
- Possibility of hazardous reactions: with nitric acid, acetic anhydride -> Explosive Strong exothermic reaction with acids. Reacts with halogenated compounds. The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion
- Incompatible materials: acids, peroxides, halogenated hydrocarbons, iodide, halogen compounds, combustible substances, oxidizing agents
- C Hazaardous decomposition products:

Nitrous gases, hydrogen cyanide (prussic acid), formaldehyde, ammonia (NH3) See chapter 5



## 11 Toxicological information

#### Information on toxicological effects

Acute toxicity: Quantitative data on the toxicity of the preparation are not available.

LD/LC50 values that are relevant for classification:

100-97-0 methenamine



## Oral/LD50/9200 mg/kg (rat) (IUCLID)

#### Primary irritant effect:

- on the skin:temporary erythema possible
- on the eye: Irritant effect.
- Sensitization: Sensitization possible by skin contact.
- Experience with humans: Can cause kidney damages.
- Additional toxicological information: irritant
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) no data available



## 12 Ecological information

- C Toxicity
- C Acquatic toxicity:
- © 100-97-0 methenamine

EC50 36 mg/l/48h (Daphnia magna)

(IUCLID)

LC50 49.8 mg/l)96h (pimephales promelas)

Toxicity EC10 5 g/l (fish)

Toxicity Eco 10 g/l/48h (Daphnia magna)

- Persistence and degradability
- Other information: Quantitative data on the ecological effect of this product are not available. The following statements refer to the individual components. CAS-No 100-97-0: 39-47% / 28d. The product is slightly biodegradable.
- Behaviour in environmental systems: 100-97-0 methenamine log P(o/w); -2.84 (.)
- Bioaccumulative potential Does not accumulate in organisms
- Ecotoxical effects:
- C Remark:

Toxic for fish:

Magnesium compounds: 100-400mg/l

Bacterial toxicity: sulphates toxic > 2.5 g/l

- Additional ecological information:
- **BSB5-value: 100-97-0 methenamine** BSB5 0.015 g/g (.)

**General notes:** Water hazard class 1 (German Regulation) (Self-assessment acc VwVwS Annex 4): slightly hazardous for water. Do not allow undiluted product to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized.

vPvB assessments: no data available





## 13 Disposal considerations

- Waste treatment methods
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Han over to disposers of hazardous waste.
- European waste catalogue: 16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleaning agent: Water, if necessary with cleaning agent.



## 14 Transport information

## Land transport ADR/RID (cross border)



ADR/RID-GGVS/E class: 4.1 (F1) Flammable solids, self-reactive substances and solid

desensitized explosives.
Kemler Number: 40
UN-Number: 1328
Packaging group: III

**Label:** 4.1

**UN proper shipping name:** 1328 HEXAMETHYLENETETRAMINE

Limited quantities (LQ): LQ9 Tunnel restriction code: E Maritime transport IMDG:



IMDG Class: 4.1 UN Number: 1328

**Label:** 4.1

Packaging group: III EMS Number: F-A, S-G Marine pollutant: No

Correct technical name: HEXAMETHYLENETETRAMINE

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 4.1 UN/ID Number: 1328

**Label:** 4.1



Packaging group: III

Correct technical name: HEXAMETHYLENETETRAMINE

Un "Model Regulation": UN1328, HEXAMETHYLENETETRAMINE, 4.1, III

Special precautions for user Warning: Flammable solids, self-reactive substances and solid

desenstitised explosives.



## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: Observe employment restrictions for pregnant and nursing mothers according to the 'mother protection guideline' (92/85/EEC)
- © Employment restrictions concerning young persons must be observed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



#### 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. The information given is designed only as a guidance for safe handling. The categorisation according to Dangerous Preparations Directive 1999/45/EC rsp. regulation CLP (EC)1272/2008 is based on the classification of the single component according to Annex VI of regulation CLP (EC)1272/2008 as well as on manufacturer's data completed by hazardous material database.

#### Relevant phrases

H228 Flammable solid

H337 May cause an allergic skin reaction.

R11 Highly flammable.

R43 May cause sensitization by skin contact.

# Abreviations and acronyms:

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport

Association" (IATA)

ICAO: International Civil Aviation Organization



ICAO-TI: Technical Instructions by the "International Civil Aviation Organization

(ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV. Gefahrstoffverordnung (Ordinance on Hazardous Substanes, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

C Edition Number 1

Translated by
WAPOTEC GmbH

C Short cut ---

