

Page 1/8

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Theophylline-ethylendiamine-hydrate, API
- · Article number: 2691
- · CAS Number:
- 317-34-0
- EC number:
- 206-264-5
- **Registration number** The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
   Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

#### 2 Hazards identification

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

Acute Tox. 3 H301 Toxic if swallowed.

· Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger



according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

#### Trade name: Theophylline-ethylendiamine-hydrate, API

(Contd. of page 1)

Page 2/8

• **Hazard statements** H301 Toxic if swallowed.

- · Precautionary statements
- P264 Wash thoroughly after handling.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- Determination of endocrine-disrupting properties Not applicable.

#### 3 Composition/information on ingredients

- · Substances
- · CAS No. Description
- CAS: 317-34-0 aminophylline
- · Identification number(s)
- EC number: 206-264-5

#### 4 First aid measures

- · Description of first aid measures
- After inhalation:

Bring the person out of the contaminated area to fresh air. Call a doctor immediately.

#### · After skin contact:

- Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### 5 Firefighting measures

#### · Extinguishing media

#### • Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

• Special hazards arising from the substance or mixture

Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.

- Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.



according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

(Contd. of page 2)

Page 3/8

#### Trade name: Theophylline-ethylendiamine-hydrate, API

#### · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust. Avoid contact with the substance.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Take up dry. Clean up with water.

Dispose contaminated material as waste according to item 13.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

### 7 Handling and storage

- Precautions for safe handling
   Ensure good ventilation/exhaustion at the workplace.
   Provide eye rinsing kit.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Dust protection mask.
- Hand protection Protective gloves
- · Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

(Contd. of page 3)

Page 4/8

### Trade name: Theophylline-ethylendiamine-hydrate, API

Rubber gloves	
Natural rubber, NR	

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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.

- · Eye/face protection Tightly sealed goggles
- · Body protection: Protective work clothing

#### 9 Physical and chemical properties

Information on basic physical and chemical pro	perties
<ul> <li>General Information</li> <li>Physical state</li> </ul>	Solid
· Colour:	white to light yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.
• Melting point/freezing point:	270–273 °C
· Boiling point or initial boiling point and boiling	210 213 0
range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
·pH	9
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	
water at 23 °C:	200 g/l
• Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
	Not applicable.
Density and/or relative density	
· Density:	Not determined.
Relative density	Not determined.
Bulk density:	380 kg/m <sup>3</sup>
Vapour density	Not determined.
<ul> <li>Particle characteristics</li> </ul>	Not determined
· Other information	
· Appearance:	
· Form:	Powder
Important information on protection of health	
and environment, and on safety.	
Auto-ignition temperature:	Not determined.

#### IE —



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

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

Page 5/8

#### Trade name: Theophylline-ethylendiamine-hydrate, API

Printing date 17.03.2023

· Explosive properties:	(Contd. of page 4) Product does not present an explosion hazard.
Change in condition	
· Evaporation rate	Not applicable.
<ul> <li>Information with regard to physical hazard classes</li> </ul>	
· Explosives	Void
	Void
Flammable gases	Void
	Void
Aerosols	Void
	Void
Oxidising gases	Void
	Void
· Gases under pressure	Void
	Void
Flammable liquids	Void
	Void
Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
	Void
Pyrophoric liquids	Void
·	Void
Pyrophoric solids	Void
	Void
Self-heating substances and mixtures	Void
	Void
Substances and mixtures, which emit flamn	
gases in contact with water	Void
gases in contact with water	Void
Oxidising liquids	Void
	Void
Oxidising solids	
	Void
	Void
Organic peroxides	Void
	Void
Corrosive to metals	Void
	Void
Desensitised explosives	Void
	Void

### 10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.

· Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

IE ----



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Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

#### Trade name: Theophylline-ethylendiamine-hydrate, API

(Contd. of page 5)

Page 6/8

Incompatible materials: No further relevant information available.

• Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Toxic if swallowed.
- · 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.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

#### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability The product is not easily, but potentially biodegradable.
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 7)



according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 17.03.2023

#### Trade name: Theophylline-ethylendiamine-hydrate, API

(Contd. of page 6)

Page 7/8

#### 13 Disposal considerations

· Waste treatment methods

### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to local regulations.

14 Transport information	
· UN number or ID number · ADR, IMDG, IATA	UN2811
<ul> <li>· UN proper shipping name</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> <li>· Transport hazard class(es)</li> </ul>	2811 TOXIC SOLID, ORGANIC, N.O.S. (aminophylline) TOXIC SOLID, ORGANIC, N.O.S. (aminophylline) Toxic solid, organic, n.o.s. (aminophylline)
<ul> <li>ADR, IMDG, IATA</li> <li>Class</li> <li>Label</li> <li>Packing group</li> <li>ADR, IMDG, IATA</li> <li>Environmental hazards:</li> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Maritime transport in bulk according to IMO instruments</li> </ul>	<ul> <li>6.1 Toxic substances.</li> <li>6.1</li> <li>III</li> <li>Not applicable.</li> <li>Warning: Toxic substances.</li> <li>60</li> <li>Not applicable.</li> </ul>
Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	5 kg 2 E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>UN "Model Regulation":</li> </ul>	5 kg UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (AMINOPHYLLINE), 6.1, III

#### **15 Regulatory information**

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

- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

(Contd. on page 8)

IE -



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Revision: 17.03.2023

#### Trade name: Theophylline-ethylendiamine-hydrate, API

(Contd. of page 7)

IE ----

Page 8/8

- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- · Version number of previous version: 1.00
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - Category 3