

created: 20.10.2010
updated: 22.01.2014

© by Wapotec GmbH

1 Identification of the substance/mixture and the company

Product identifier	Calcio-H 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

Hazard classification:



Xi Irritant

Information pertaining to particular dangers for man and environment

R36/38 Irritating to eyes and skin

Classification system

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" (1999/45/EC)3 in the latest valdi version.

GHS label elements



Warning

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.



Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before reuse.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

3 Composition/information on ingredients

- ⦿ **Description:** Mixture of organic and inorganic compounds
- ⦿ **Dangerous components:**
- ⦿ CAS: 77-86-1 trometamol  Xi; R36/38 20-30%
- ⦿ EINECS: 201-064-4 Warning:  3.2/2, 3.3/2
- ⦿ **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

- ⦿ **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. Call a doctor immediately.
- ⦿ **After eye contact** Rinse opened eye for several minutes (at least 10 min) under running water. Call a doctor immediately.
- ⦿ **After swallowing** Rinse out mouth and then drink 1-2 glasses of water. Seek medical treatment.
- ⦿ **The following symptoms may occur:** irritations. **After inhalation:** coughing, mucous membrane irritation, breathing difficulty. **After swallowing:** sickness, vomiting, cramps, thirst, cyanosis.

5 Fire-fighting measures

- ⦿ **Suitable extinguishing agents** Water, Foam, Fire-extinguishing powder, Carbon dioxide
- ⦿ **Special hazards caused by the material, its products of combustion or resulting gases.**
Formation of toxic gases is possible during heating or in case of fire. Nitrogen oxides (NO_x), Carbon monoxide (CO), Sulphur dioxide (SO₂), Nitrogen oxides. Combustible.
- ⦿ **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- Additional information**
Ambient fire may liberate hazardous vapors.
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 measures

- ⦿ **Person-related safety precautions:** Avoid causing dust. Wear protective equipment. Keep unprotected persons away. Use breathing protection against the effects of fumes/dust/aerosol.
- ⦿ **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- ⦿ **Measures for cleaning/collecting:**
Dispose of contaminated material as waste according to item 13. Collect mechanically. Ensure adequate ventilation.
- ⦿ **Additional information:** No dangerous materials are released

7 Handling and storage

- ⦿ **Handling**
- ⦿ **Information for safe handling:** Thorough dedusting.
- ⦿ **Information about protection against explosions and fires:**
Protect from heat. Keep ignition sources away – Do not smoke.
- ⦿ **Storage**
- ⦿ **Requirements to be met by storerooms and containers:** Store in cool location.
- ⦿ **Information about storage in one common storage facility:** Not required.
- ⦿ **Further information about storage conditions:**
Keep container tightly sealed. Protect from heat and direct sunlight. Store under dry conditions. Protect from humidity and keep away from water. 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 item 7.
- ⦿ **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.
- ⦿ **Personal protective equipment**
- ⦿ **General protective and hygienic measures** Avoid contact with the eyes 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 ≥ 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

- ☉ **Form:** Tablets
- ☉ **Colour:** White
- ☉ **Odour:** Odourless
- ☉ **Melting point/ Melting range:** Not determined
- ☉ **Boiling point / Boiling range:** Ca. 219°C
- ☉ **Flash point:** Not applicable
- ☉ **Danger of explosion:** Product is not explosive.
- ☉ **Density** Not determined
- ☉ **Solubility in / Miscibility with Water:** Soluble
- ☉ **pH-value (9.5g/l) at 20°C:** 10.2
- ☉ **Solvent content:** 0.0 %
 - ☉ **Organic solvents:**
- ☉ **Solids content:** 100 %

10 Stability and reactivity

- ☉ **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- ☉ **Materials to be avoided:** oxidizing agents
- ☉ **Dangerous reactions:** see chapter 5
- ☉ **Dangerous products for decomposition:**
 - ☉ Carbon monoxide and carbon dioxide
 - ☉ See chapter 5




11 Toxicological information

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

LD/LC50 values that are relevant for classification:**77-86-1 trometamol**

Oral/LD50/5900 mg/kg (rat)

Primary irritant effect:

-  on the skin: Irritant to skin and mucous membranes.
-  on the eye: Irritant effect.
-  Sensitization: No sensitizing effect known.

Chronic: dermatitis

-  Cancerogenicity

No data available

-  Further information

Additional toxicological information: irritant

Chronic: dermatitis

**12 Ecological information****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 77-86-1: 89%/28d

Behaviour in environmental systems: 77-86-1 trometamol log P(o/w) – 1.56 (.)

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment acc VwVwS Annex 4): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system.

PBT assessments: no data available**vPvB assessments:** no data available**13 Disposal considerations****Product:**

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

European waste catalogue: 16 05 08* - discarded organic chemicals consisting of or containing dangerous substances

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: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

Un "Model Regulation": -

Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of product: Xi Irritant

Risk phrases: 36/38 Irritating to eyes and skin

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.





60 This material and its container must be disposed of as hazardous waste.

National regulations

Information about limitation of use: Employment restrictions concerning young persons must be observed.

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 resp. 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 R-Phrases	
36/38	Irritating to eyes and skin.
 Edition	Number 1
 Translated by	WAPOTEC GmbH
 Short cut	---