




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

- 1.1 Product identifier **Calcio-H No. 2**
- 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](mailto: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
- Irritant to skin cat. 2**  
**Serious eye irritation cat. 2**
- H315 Causes skin irritation.  
H319 Causes serious eye irritation.
-  according to Directive (EC) N° 1999/45
- Xi (irritant)**
- R36/R38 Irritating to eyes and skin.
- 2.2 Label elements
-  according to Directive (EC) N° 1272/2008



**Warning**

H280	Wear protective gloves/eye protection
P302+P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: seek medical advice resp. medical attendance.
P337 + P313	If eye irritation persists: seek medical advice resp. medical attendance.

According to Directive (EC) N° 1999/45



### **Xi Irritant**

R36/R38 Irritating to eyes and skin

Danger defining components for labeling:

Not applicable.

Other hazards

Not applicable.

## **Section 3 Composition/information on ingredients**

3.2 Mixtures

Chemical characteristics

Mixture of organic compounds

Dangerous ingredients:

Name	CAS # / EC # / Index #	Conc. %	Classification according to		
			Directive 67/548/EEC*	Regulation (EC) 1272/2008*	
Tris(hydroxymethyl) -aminomethan**	77-86-1/ 201-064-4/ -	20-30	Xi; R 36/38	Eye Irrit. 2 Skin Irrit. 2	H319 H315

\* For the wording of R- resp. H-Phrases and danger classification see section 16.

\*\*For the substance is a job-specific monitored limit value considered. (see section 8)

REACH - Pre-registered substances All components are REACH pre-registered.

## Section 4 First-aid measures

- 4.1 Description of first aid measures
- Remove immediately all contaminated clothing.
- ☉ After inhalation
- Move affected person immediately to fresh air.  
Seek medical treatment in case of complaints.
- ☉ After skin contact
- After skin contact, wash immediately with plenty of water.  
Get medical advice immediately.
- ☉ After eye contact
- After eye contact, rinse eye for several minutes (at least 15 minutes) under running water holding eye lids open.  
Get medical advice.
- ☉ After ingestion
- Rinse the mouth with plenty of water and drink at least 1-2 glasses of water.  
Get medical advice.
- 4.2 Most important symptoms and effects, acute and delayed
- Irritation
- after inhalation: Cough, mucous membrane irritation, shortness of breath
- after ingestion: Sickness, vomiting, thirst, cyanosis, cramps
- 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, foam, fire-extinguishing powder, carbon dioxide (CO<sub>2</sub>)
- ☉ Unsuitable extinguishing media for safety reasons
- None.
- 5.2 ☉ Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:
- Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Sulphur dioxide (SO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)
- 5.3 Special protective actions for fire-fighters
- Special protective equipment

Wear self-contained breathing apparatus.  
Wear full protective suit.

 Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Ambient fire may liberate hazardous vapors.



**Section 6 Accidental release measures**

6.1 Personal precautions, protective equipment and suitable emergency procedures.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow product to reach sewage system or water bodies.

6.3 Measures for cleaning/collecting:

Dispose of contaminated material as waste according to section 13.

Collect mechanically.

Ensure adequate ventilation.

6.4 Additional information

Information on safe handling see section 7.

Information on protective measures see section 8

Information on disposal see section 13



**Section 7 Handling and storage**

7.1 Precautions for safe handling

Provide suction extractors if dust is formed.

7.2 Conditions for safe storage including any incompatibilities

Fire and explosion protection measures

Keep away from sources of ignition - no smoking.

Design of storage rooms and container

Protect from heat and direct sunlight.

Store under dry and cool conditions.

Protect from humidity and keep away from water.

Protect from the effects of light.

Keep container tightly sealed.

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

Material incompatibility

No further information available.

VbF class: 11

- 7.3 Specific end uses  
No further information available.



## Section 8 Exposure controls and personal protection

### 8.1 Control parameters

The product does not contain relevant quantities of substances with monitored limits based on the workplace.

### 8.2 Exposure controls

#### General protective and hygiene measures

Follow usual precautions when dealing with chemicals. Keep away from food and drinks. Do not eat or drink at work, wash hands before breaks and end of work. Avoid eye and skin contact. Avoid inhaling of steams/aerosols. Change contaminated work wear and clean it before the next wearing. Preventive skin protection.

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

#### Respiratory protection

In case of release of dust/aerosol only work with a protection mask.  
Recommended filter device for short term use: Filter P2

#### 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

Recommended thickness of the material:  $\geq 0.11$  mm

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 goggles

#### Personal protection

Protective working clothing



## Section 9 Physical and chemical properties

Appearance	Tablets
Color	White
Ordor	Odorless

	Odor threshold	No data available
	pH-value 9.5 g/l (20°C)	10.2
	Melting point	Not determined
	Boiling point / Boiling range	Not determined
	Flash point:	Not determined
	Evaporation rate	Not applicable
	Flammability	No data available
	Upper explosion limit	No data available
	Lower explosion limit	No data available
	Vapor pressure	No data available
	Density	Not determined
	Solubility in water (20°C)	Soluble
	Partition coefficient: n-octanol-water	No data available
	Auto ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	In powdery or granulated texture: Explosive during air contact Dust explosions possible
	Oxidizing properties	No data available
9.2.	Other information:	
	Solid content:	100,0%
	Solvent content:	
	Organic solvents:	0,0%
	No further information available.	








## **Section 10**    **Stability and reactivity**

- 10.1    Reactivity  
To avoid thermal decomposition do not overheat.  
There are expected no hazardous reactions for intended use.
- 10.2    Chemical stability  
No decomposition if used according to specifications.
- 10.3    Possibility of hazardous reactions  
Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

- 10.4 Conditions to avoid  
Avoid extreme temperatures.  
No further relevant information available.
- 10.5 Incompatible materials  
Oxidants
- 10.6 Hazardous decomposition products  
See section 5


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## Section 11 Toxicological information

- 11.1 Information on toxicological effects  
LD/LC50 values that are relevant for classification (literature)  
Acute toxicity  
Quantitative data on the toxicity of the preparation are not available.  
The following disclosures refer to source relevant individual components.  
Primary irritant effect:  
Skin: Irritant to skin and mucous membranes.  
Eye: Irritation  
 Sensitization  
No sensitizing effect known.  
 Cancerogenity  
No data available.  
 Mutagenicity  
No data available.  
 Reproductive toxicity  
No data available.  
 Further information  
Additional toxicological information: chronic: dermatitis

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## Section 12 Ecological information

- 12.1 Toxicity  
 Aquatic toxicity  
No further information available.
- 12.2 Persistence and degradability  
No further information available.  
Other notes:

Quantitative data on the organic effects of the preparation are not available.  
The following disclosures refer to source relevant individual components.  
CAS-No. 77-86-1; 89% / 28d (Merck – OECD 301 D)

12.3 Bioaccumulation potential  
No further information available.

12.4 Mobility in soil  
No further information available.

Additional ecological information:

General information:

(Preparation) Water hazard class 3 (German Regulation) (self-assessment acc.VwVwS Annex 4 Nr. 3)

Severely hazardous to water

Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT- and vPvB-assessment  
No data available for the product itself.

12.6 Other adverse effects  
No further information available.

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## Section 13 Disposal considerations

13.1 Waste treatment methods

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

Hand over to disposers of hazardous waste. Chemicals must be disposed of in compliance with national and regional regulations. Under [www.retrologistik.de](http://www.retrologistik.de) you will find country- and substance-specific information as well as contact partners.

Waste key number

16 05 08

Waste name

Discarded organic chemicals consisting of or containing dangerous substances.

European waste catalogue

EWC-waste key is source-related.

The decision is up to the enduser.

Contaminated packaging material

Chemicals must be disposed of in compliance with national and regional regulations. Under [www.retrologistik.de](http://www.retrologistik.de) you will find country- and substance-specific information as well as contact partners.

Recommended cleaning agent: Water, if necessary with cleaning agent.

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## 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.

## Section 15 Regulatory information

- 15.1 Safety-, health-, ambient- and legislation specific instructions for substance or mixture  
This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006.  
The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC)1272/2008 Annex I.

### National regulations:

Austria:

- ☉ Labeling according to BGBl II 2000/81 ChemV 1999.  
The product is not classified and does not require hazards identification.
- ☉ ChemG 1996-amendment 2011.  
This product is not classified hazardous (no hazardous preparation) according to the Austrian chemical legislation of 1996- amendment 2011.
- ☉ VbF - Directive about combustible liquids (BGBl 1991/240)  
This product is not classified as combustible liquid acc. VbF.

Germany:

- ☉ Classification in water hazard classes according VwVwS dated 17.05.1999/  
annex 4 Nr. 3  
WP 3 (severely hazardous to water)

Employment restrictions:

Observe employment restrictions for the protection of young workers acc. to Regulation 94/33/EEC.

Major Accident Ordinance (12. BIm SchV): Not applicable.

Classification in water hazard classes: P 3 (self-assessment, acc. annex 4 Nr.3 VwVwS):

Severely hazardous to water

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. The information given is designed only as a guidance for safe handling. Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

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.

### Relevant H-phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

### Relevant hazard classification

Not applicable

### Edition

Nr. 2 replaces the previous version  
 Amendments: 1.4, 8.2, 9.1.11.1 15.1

### 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