

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Version: 2 Revision date: 18.08.2016

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

## 1.1. Product identifier

## **Greinox 1000**

CAS No.: EC No.: INDEX No.: REACH No.:

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

Relevant identified uses: Pickling and acids

Uses advised against: Other

1.3. Details of the supplier of the safety data sheet

Manufacturer

Kai Greising e. K. Clean Marker

**Telephone:** +49 (0) 7331 30 580

Industriestrasse 29/2 **Telefax:** +49 (0) 7331 981 722

D 73340 Amstetten

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Kai Greising e. K. Clean Marker

**Telephone:** +49 (0) 7331 30 580

Industriestrasse 29/2 **Telefax:** +49 (0) 7331 981 722

D 73340 Amstetten

Information contact

Kai Greising e. K. Clean Marker Information telephone: +49 (0) 7331 30 580

Information telefax: +49 (0) 7331 981 722

E-mail (competent person): -

Website: http://www.greising.com/

**National contact** 

Kai Greising e. K. Clean Marker Information telephone: +49 (0) 7331 30 580

Information telefax: +49 (0) 7331 981 722

E-mail (competent person): -

Website: http://www.greising.com/

Dept. responsible for information:

Kai Greising e. K. Clean Marker

1.4. Emergency telephone number

Giftnotrufzentrale Freiburg Telephone: +49 (0) 761 19 240

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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Regulation (EC) No 1272/2008:

Metal Cor. 1; H290, Skin Corr. 1B; H314

#### 2.2. Label elements

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

**Hazard pictograms:** 

GHS05

Signal word: Warning

**Hazard statements:** 290 May be corrosive to metals.

314 Causes severe skin burns and eye damage.

**Precautionary statements:** 234 Keep only in original container.

280 Wear protective gloves/protective clothing/eye protection/face

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protection.

301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

309+311 IF exposed or if you feel unwell: Call a POISON CENTER

or doctor/physician.

390 Absorb spillage to prevent material damage.

#### 2.3. Other hazards

No risks worthy of mention.

## **SECTION 3: Composition / information on ingredients**

## 3.1. Substances

not applicable

## 3.2. Mixtures

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
phosphoric acid	231-633-2	7664-38-2	015-011-00-6		<= 10 %	Metal Cor. 1; H290 Skin Corr. 1B; H314

(Full text of H- and EUH-phrases: see section 16.)

## **Additional information**

none

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

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General information: In case of accident or if you feel unwell, seek medical advice immediately

(show safety data sheet if possible).

Following inhalation: Move victim to fresh air. Put victim at rest and keep warm. Immediately get

medical attention.

**Following skin contact:** After contact with skin, wash immediately with plenty of water and soap.

Immediately get medical attention.

After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for

10 to 15 minutes holding eyelids apart. Seek medical attention if problems

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persist.

After ingestion: No special measures are necessary. Seek medical attention if problems

persist.

**Self-protection of the first aider:** No special measures are necessary.

## 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** Harmful in contact with skin. difficulty breathing, lung irritation

Nature of Hazard: Causes burns, pulmonary edema

## 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Let water be swallowed in little sips (dilution effect). Do not induce vomiting.

**Special treatment:** No special measures are necessary.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media: Water fog. High power water jet. Carbon dioxide (CO2). Foam. Dry

extinguishing powder.

Unsuitable extinguishing media: none

## 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: phosphorus oxide

## 5.3. Advice for firefighters

#### **General information**

Extinguishing materials should be selected according to the surrounding area.

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Guide people to safety. Provide adequate ventilation.

## 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Treat the assimilated material according to the section on waste disposal.

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#### 6.4. Reference to other sections

See protective measures under point 7 and 8.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advices on safe handling

Avoid contact with skin and eyes.

#### **Technical measures**

No special technical protective measures are necessary.

#### Precautions against fire and explosion

No special fire protection measures are necessary.

#### **Additional information**

Corrosive to metals.

## 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

No special technical protective measures are necessary.

#### Packaging materials

Keep/Store only in original container.

#### Requirements for storage rooms and vessels

Keep container tightly closed.

## Hints on joint storage

Do not store together with: metal. Oxidizing agents. Keep away from food, drink and animal feedingstuffs.

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**Storage class:** 8 B Non-combustible corrosive substances.

#### Further information on storage conditions

none

## 7.3. Specific end use(s)

Observe instructions for use.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
phosphoric acid	7664-38-2	TRGS 900 (De)	2 mg/m3		De

Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
phosphoric acid	7664-38-2	2000/39/EG	1 mg/m3	2 mg/m3	EU

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## **DNEL-/PNEC-values**

#### **DNEL** value

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
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#### **PNEC Value**

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

## Risk management measures according to used control banding approach

none

#### Additional information

E: respirable fraction

AGS: Committee on Hazardous Substances (Germany)

EU: European Union

De: Germany

## 8.2. Exposure controls

#### Occupational exposure controls

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

## General protection and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Respiratory protection

Respiratory protection not required.

## **Hand protection**

Hand protection: not required.

#### Eye/face protection

Tightly sealed safety glasses.

## **Body protection**

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

#### **Environmental exposure controls**

refer to chapter 7. No further action is necessary.

## Consumer exposure controls

refer to chapter 7. No further action is necessary.

#### **Exposure Scenario**

none

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## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Colour: colourless
Odour: odourless
Odour threshold: none

Safety relevant basis data

parameter unit remark

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**Density:** at  $\mathbb{C}$ : 20 1,02 g/cm<sup>3</sup>

Package density: not applicable

pH: at ℃: 20 acidic

at g/l: 100

Melting point / range:No data availableBoiling temperature / range:No data availableFlash point:none/none

Flammability (solid, gas):

Explosivity:

Lower explosion limit:

Upper explosion limit:

not applicable
not applicable

**Ignition temperature:** none/none

**Decomposition temperature:**  $\sim 338 \, ^{\circ} \text{C}$ 

Oxidizing potential: No data available Vapour pressure: No data available Vapour density: No data available **Evaporation rate:** No data available Water solubility: easily soluble Fat solubility: No data available Soluble in: No data available Partition coefficient: n-No data available

octanol/water:

Viscosity:No data availableSolvent separation test:No data availableSolvent content:No data available

#### 9.2. Other information

none

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

#### 10.2. Chemical stability

With proper storage and handling the product is stable.

## 10.3. Possibility of hazardous reactions

In a watery solution and in contact with metals, product develops hydrogen.

## 10.4. Conditions to avoid

heat.

## 10.5. Incompatible materials

Alkalis (alkalis). metal. Oxidizing agents.

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## 10.6. Hazardous decomposition products

Can be released in case of fire: Phosphorus oxides...

#### Additional information

none

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

There are no data available on the mixture itself. Data apply to the principal component.

#### **Acute toxicity**

Substance:	CAS-No.:	Toxicological information	
phosphoric acid	7664-38-2	cute toxicity, oral LD50: 1530 mg/kg (Rat.)	
		Acute toxicity, dermal LD50: 2740 mg/kg (Rabbit.)	

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#### Specific symptoms in laboratory animals

none

#### Irritation and etching

Irritant effect on the skin highly caustic. Irritant effect on the eye highly caustic.

Irritant effect on the respiratory tract

highly caustic.

Additional information

Causes severe skin burns and eye damage.

#### Sensitization

No information available.

## Repeated dose toxicity (subacute, subchronic, chronic)

No information available.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indications of human carcinogenicity exist.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

#### **General remarks**

none

#### Practical experience/human evidence

Following symptoms can occur: Corneal opacity. Coughing. shortage of breath. Abdominal pain

#### Other observations

none

#### Other information

none

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## **SECTION 12: Ecological information**

## 12.1. Toxicity

There are no data available on the mixture itself. Ecological information refers to main component.

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#### **Ecotoxicity**

Substance: CAS-No.: Ecotoxicity

## 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

## 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

none

#### Further ecological information

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

#### **Further details**

The product leads to changes in the pH value of the test system. The result refers to an unneutralised sample.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Appropriate disposal/Product

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

#### Appropriate disposal / Package

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

#### List of proposed waste codes/waste designations in accordance with EWC

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste code product: 11 01 06 - acids not otherwise specified

Waste code packaging: 15 01 10 - packaging containing residues of or contaminated by dangerous

substances

#### remark

Waste disposal according to official state regulations.

## **SECTION 14: Transport information**

#### 14.1. UN number

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**UN No.:** 1805

## 14.2. UN proper shipping name

## Official directive for the transport

Phosphoric acid, aqueous solution

#### **Proper Shipping name**

Phosphoric acid, aqueous solution, conc. <= 10 %

## 14.3. Transport hazard class(es)

Hazard label(s): 8 Classification code: C1

## 14.4. Packing group

Packing group: |||

#### 14.5. Environmental hazards

**Environmental hazards:** 

## 14.6. Special precautions for user

Land transport (ADR/RID)

Remark: Limited quantity (LQ): Tunnel restriction code: 3(E)
Transport category: 3 Tunnel restriction code: E
Special provisions: Limited quantity (LQ): 5 |

Sea transport (IMDG)

Special Provisions: Materials to avoid: Oxidizing agents. Organic peroxides and self-reactive

substances Alkalis (alkalis). Keep away from food, drink and animal feedingstuffs.

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**Remark:** Not a hazardous material with respect to these transportation regulations.

EmS-No: MFAG: Marine pollutant: Special provisions: Limited quantity (LQ): 5 |

Air transport (ICAO-TI / IATA-DGR)

**Remark:** Not a hazardous material with respect to these transportation regulations.

Limited quantity (LQ): 51

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Remark:

## **SECTION 15: Regulatory information**

## Labeling

Hazardous component(s) for labelling

Sulfuric acid

## Special labelling of particular preparations

Safety data sheet available for professional user on request.

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

**EU** legislation

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Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

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none

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer.

Regulation (EC) No. 648/2004 (Detergents regulation)

none

#### **National regulations**

Observe in addition any national regulations!

#### Restrictions of occupation

none

#### Storage class

8 B Non-combustible corrosive substances.

#### Water hazard class (WGK)

1 weak water pollutant (WGK 1)

## Other regulations, restrictions and prohibition regulations

none

## 15.2. Chemical Safety Assessment

## For this preparation a chemical safety assessment has been carried out:

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

## Relevant H- and EUH-phrases (Number and full text) Hazard statements

290 May be corrosive to metals.

Causes severe skin burns and eye damage.

#### Training advice

none

#### Recommended restrictions of use

refer to chapter 1.

#### **Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### **Documentation of changes**

none

## Key literature references and sources for data

Data arise from reference works and literature.

#### Abbreviations and acronyms

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none

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