according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



01 Identification of substance

- 1.1 Product details:
- Trade name:

TARTRATE CRYSTAL REMOVER P

· Article number:

406200

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

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Application of the substance / the preparation

Cleaning material/ Detergent

- 1.3 Supplier details:
- Manufacturer/Supplier:

WIGOL W Stache GmbH chemische Fabrik Textorstraße 2

D-67547 Worms Tel.: +49-(0)6241-4141-0

Fax: +49-(0)6241-414141

· Informing department:

Laboratory Department

TEL:+49(0)6241 4141 0; FAX:+49(0)6241 4141 41; mail: kontakt@wigol.de

1.4 Emergency information:

TEL: +49 (0) 6131 19240

Poison Information Center Mainz, Germany

http://www.giftinfo.uni-mainz.de/

02 Hazard identification

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



GHS05

Met. Corr.1 - H290 May be corrosive to metals.

Skin Corr. 1A - H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.

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

C corrosive

R 35

Causes severe burns.

Information concerning particular hazards for human and environment:

See the following

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008





GHS05 GHS07

Signal word

(continued on page 2)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 1)

Danger

Hazard-determining components of labelling:

sodium hydroxide / Disodium metasilicate, pentahydrate

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310 Immediately call a POISON CENTER/doctor.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- 2.3 Additional information:
- Results of PBT and vPvB assessment

According to Annex XIII, XIV of Regulation (EC) No.1907/2006 concerning REACH Not fulfilling PBT (persistent bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent/very bioaccummulative) criteria. Self classification

- PBT:
- Not applicable.
- vPvB:

Not applicable.

03 Composition/Data on components

- · 3.2 Chemical characterization
- Description:

Solid mixture of substances listed below with non declarable additions

· Dangerous components:

CAS NO. Description Index R-phrases 1310-73-2

sodium hydroxide

>30.0

EINECS Number: 215-185-5 Record number 01-2119457892-27

C

Met. Corr.1 - H290, Skin Corr. 1A -

H314; **(1)** Acute Tox. 4 - H302

Disodium metasilicate, pentahydrate 10213-79-3

>5,0-<15,0

%

EINECS Number: 229-912-9

Record number 01-2119449811-37-0004

C Xi

Met. Corr.1 - H290, Skin Corr. 1B -

H314; 💠 Acute Tox. 4 - H302, STOT SE 3 -

Additional information

For the wording of the listed risk phrases refer to section 16.

D

(continued on page 3)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 2)

04 First aid mesures

· 4.1 Description of first aid measures

General information

Instantly remove any clothing soiled by the product. Personal protection for the First Aider.

· After inhalation

Supply fresh air or oxygen; call for doctor.

In the case of breathing difficulties have the casualty inhale oxygen.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

Use eve protection.

Seek medical treatment.

After swallowing

Rinse out mouth.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting; instantly call for medical help.

During spontaneous vomiting hold the head of the casualtyned onto low with the body in a prone position in order to avoid the penetration of vomit into the air tube.

Information for doctor

Typical caustic burns. Symptoms of acute poisoning: The local damage proceeds very quickly, initially without any or little (inadequate!) sensation of pain. Eyes: in particular damage to the conjunctives, cornea, sclera (edema, ulceration/perforation, opacity of the cornea), more seldom even to the retina and choroidea; there is a danger of blindness! Skin: erythema -> erosion with swelling of the tissue showing soft, gelatinous surface (colliquative necrosis), -> deficient skin function (rule of nines!) Inhalation: tussive irritation, following massive inhalation possible dyspnoea, stridor, danger of laryngospasm/glottic edema, pulmonary edema, bronchopneumonia Ingestion: painful reddening/glassy swelling of the mucous membranes of the mouth/tongue (however, signs of corrosion can also be absent!); pain behind the sternum and in the epigastrum, dysphagia, under certain circumstances emesis (danger of aspiration); in serious cases rapid entry of collapse/shock (sometimes fatal); Information see: GESTIS-database on hazardous substances www.hvbg.de/bgia/gestis-database

4.2 The following symptoms may occur:

No further relevant information available.

Danger

No further relevant information available.

Treatment

No further relevant information available.

05 Fire fighting measures

. 5.1 Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· For safety reasons unsuitable extinguishing agents

5.2 Special hazards caused by the material, its products of combustion or flue gases:

No further relevant information available.

5.3 Advice for firefighters

· Protective equipment:

Keep breathing equipment ready.

Wear protective equipment. Keep unprotected persons away.

Additional information

None

D

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 3)

06 Accidental release measures

6.1 Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

• 6.2 Measures for environmental protection:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

6.3 Measures for cleaning/collecting:

Dispose of contaminated material as waste according to item 13.

Collect mechanically.

Ensure adequate ventilation.

6.4 Additional information:

Other regulations, limitations and prohibitive regulations see chapter 15

07 Handling and storage

- Handling
- 7.1 Information for safe handling:

Thorough dedusting.

Do not mix with acid products

Information about protection against explosions and fires:

No special measures required.

Technically and precautionary measures

Store in the original bundle.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers:

Observe official regulations on storing packagings with dangerous goods

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Protect from frost.

Protect from heat and direct sunlight.

Store under dry conditions.

Store in a cool place.

Storage class

8B

Storage classes according TRGS 510

7.3 Specific end use(s)

No further relevant information available.

08 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7.

- 8.1 Control parameters
- · Components with critical values that require monitoring at the workplace:

CAS No. Designation of material 1310-73-2 sodium hydroxide

MAK (TRGS 900)

Long-term value mg/m3

DFG, Y, u.D.

10213-79-3 Disodium metasilicate, pentahydrate

INFO

Short-term value Allgem. Staubgrenzwert mg/m3

Anteil (E) 4 mg/m3 - Anteil (A) 1,5 mg/m3

(continued on page 5)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 4)

· Additional information:

The lists that were valid during the compilation were used as basis.

• 8.2 Exposure controls

- · Personal protective equipment
- General protective and hygienic measures

Wash hands during breaks and at the end of the work. Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Avoid contact with the eyes and skin.

Other regulations, limitations and prohibitive regulations see chapter 15

- Breathing equipment: Respiratory protection: Dust mask during dust formation Other regulations, limitations and prohibitive regulations see chapter 15
- Protection of hands: Alkaline resistant protection gloves EN 374 (Butyl india rubber, Viton) Other regulations, limitations and prohibitive regulations see chapter 15 Preventive skin protection by use of skin-protecting agents is recommended.
- Material of gloves

observed.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- 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
- Eye protection: Tightly sealed goggles (EN 166) Other regulations, limitations and prohibitive regulations see chapter 15
- Body protection: Protective work clothing EN 340 Protective clothing, general requirements Chemical protective clothing - EN 463 following Other regulations, limitations and prohibitive regulations see chapter 15

09 Physical and chemical properties

9.1 Information on basic physical and	chemical properties
Appearance	
Appearance:	
Form:	Powder
Colour:	Whitish
Smell:	Odourless
Odour threshold:	Not determined.
ph-value:	at 20 °C 12,7+-0,3 (10,000 g/l Wasser g/l water) B
CHANGE IN CONDITION range/val	lue unit method
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Self-inflammability	Not determined.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Steam pressure:	Not determined.
Density	Not determined.
Settled apparent density	1.200,0000 kg/m3 +-100
Solubility in / Miscibility with	
Water:	Not determined.
Viscosity:	
dynamic:	Not determined.
	(continued on page 6

(continued on page 6)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

		(continued of page 5)
kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0,00 %	
9.2 Additional information	No further relevant information available.	

10 Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Materials to be avoided:

No further relevant information available.

Dangerous reactions

Reacts with light alloys in the presence of moisture to form hydrogen.

10.6 Dangerous products of composition:

No dangerous decomposition products known

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- . LD/LC50 values that are relevant for classification:

1310-73-2 sodium hydroxide

Oral, LD50: 325 mg/kg (rat)

10213-79-3 Disodium metasilicate, pentahydrate

Oral, LD50: 1152 mg/kg (rat) Dermal, LD50: 5001 mg/kg (rat)

- · Primary irritant effect:
- on the skin:

Strong caustic effect on skin and mucous membranes.

on the eye:

Strong caustic effect.

Sensitization:

No sensitizing effect known.

· Other information (about experimental toxicology):

Note: If the toxicity data relate to the mixture, the calculation is made in accordance with Annex VI, Part 3 of Regulation (EC) 1272/2008. If toxicity data are listed for individual substances they do not refer to the proportions in the mixture, but only on the materials in their standard concentrations.

Additional toxicological information:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

• 12.1 Toxicity

· Aquatic toxicity:

sodium hydroxide Gambusia affinis, LC50 (96h): 125 mg/l Daphnia magna, EC50 (24h): 76 mg/l

Disodium metasilicate, pentahydrate

Danio rerio, LC50 (96h): 210 mg/l Daphnia magna, EC50 (48h): 1700 mg/l

(continued on page 7)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 6)

• 12.2 Information about elimination (persistence and degradability):

No further relevant information available.

Behaviour in environmental systems:

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

· Ecotoxical effects:

Behaviour in sewage processing plants:

If appropriate diluted product reaches the sewage processing plant, there will be no disturbance of the biodegradable activities.

· Additional ecological information:

CSB-value:

Not determined.

BSB5-value:

Not determined

· AOX-indication:

Product contains no organic bounded halogen

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Before the waste is drained usually neutralization is necessary.

If product reaches untreated water systems, hazardous effects on fish and other water organism are possible.

12.5 Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Other adverse effects

No further relevant information available.

13 Disposal considerations

• 13.1 Product:

Recommendation

The allocation of the waste disposal key number is to be executed by the user according to the European waste disposal catalog (EAK) industry and product specific (origin-referred).

The waste keys are only referring to concentrated products.

· European waste catalogue

WASTES FROM INORGANIC CHEMICAL PROCESSES 06 02 wastes from the MFSU of bases 06 02 99 wastes not otherwise specified

• Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

Recommended cleaning agent:

Water, if necessary with cleaning agent.

D

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



(continued of page 7)

PRODUCT: TARTRATE CRYSTAL REMOVER P

14 Transport information

• 14.1 UN-Number

UN3262 **ADR IMDG** UN3262 **IATA** UN3262

· 14.2 UN proper shipping name

3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. **ADR**

(SODIUM HYDROXIDE, SOLID, DISODIUM

TRIOXOSILICATE)

IMDG CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

(SODIUM HYDROXIDE, SOLID, DISODIUM

TRIOXOSILICATE)

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

(SODIUM HYDROXIDE, SOLID, DISODIUM

TRIOXOSILICATE)

• 14.3 Transport hazard class(es)

ADR

IATA

Class 8 (C6) Corrosive substances.

Label



IMDG

Class 8 Corrosive substances.

Label



IATA

8 Corrosive substances. Class

Label



• 14.4 Packing group

ADR Ш **IMDG** П П

• 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler): 80 EMS Number: F-A,S-B Segregation groups Alkalis

• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

Excepted quantities (EQ): E2 Limited quantities (LQ) 1 kg

(continued on page 9)

according to 1907/2006/EC, Article 31

1616600

Printing date: 13.05.2015 Reviewed on: 13.05.2015



PRODUCT: TARTRATE CRYSTAL REMOVER P

(continued of page 8)

Transport category 2 Е Tunnel restriction code

UN "Model Regulation":

UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SOLID, DISODIUM TRIOXOSILICATE), 8, II

15 Regulatory information

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

National regulations

Germany: Technical rules for dangerous materials (TRGS) in particular consider:

TRGS 500 Protection measures : minimum standards

TRGS 531 endangerment of the skin by work in the damp environment (damp work)

TRGS 201 Classification and marking from wastes to the removal while handling

Germany: Regard the principles of the professional organizations for preventive medical examinations (BGV A 4), in particular:

G 24 Skin diseases (with exception of skin cancer)

Germany: Regard the principles of the professional organizations rules (BGR) in particular consider:

BGR 197: Use of skin protection

Technical instructions (air):

No further details

Water hazard class:

In accordance with VwVwS appendix 4

Water hazard class 1 (£): slightly hazardous for water. Self-assessment

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

R 34 Causes burns. R 35 Causes severe burns. R 37 Irritating to respiratory system.

Training hints

Consider annual instruction and training of the coworkers

Contents and time of the instruction are to be held in a written form and must be confirmed by the instructing people by signature. Cconsider storage time of the proof.

Recommended restriction of use

No public product - only for commercial applications.

Department issuing data specification sheet:

Laboratory department.

Abbreviations 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

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.