1677200

Printing date: 19.01.2016

CHEMICAL SAFETY DATA SHEET

Reviewed on: 19.01.2016

according to 1907/2006/EC, Article 31



• 1.1 Product details:	
• Trade name:	
TARTRATE CRYSTAL REMO	OVER F
Article number:	
000061	s of the substance or mixture and uses advised against
See the following or attachme	
Sector of Use	
industrial sites	substances as such or in preparations at
SU22 Professional uses: Pub	lic domain (administration, education,
 entertainment, services, craft Application of the substance 	
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 Ma	ainz. Germany
Poison Information Center Ma http://www.giftinfo.uni-mainz.	de/
http://www.giftinfo.uni-mainz.com 2 <u>Hazard identification</u> • 2.1 Classification of the sub • Classification according to GHS05 Met. Corr.1 - H290 May be com	bestance or mixture Regulation (EC) No 1272/2008 prrosive to metals. severe skin burns and eye damage.
 http://www.giftinfo.uni-mainz.d Hazard identification 2.1 Classification of the sub Classification according to Classification according to GHS05 Met. Corr.1 - H290 May be cording to Reg 2.2 Label elements Labelling according to Reg GHS05 Signal word Danger Hazard-determining compo Sodium Hydroxide 	bestance or mixture Regulation (EC) No 1272/2008 prrosive to metals. severe skin burns and eye damage. ulation (EC) No 1272/2008
 http://www.giftinfo.uni-mainz.d Hazard identification 2.1 Classification of the sub Classification according to Classification according to GHS05 Met. Corr.1 - H290 May be cordinated by the conductive of the substant of the sub	bestance or mixture Regulation (EC) No 1272/2008 prrosive to metals. severe skin burns and eye damage. ulation (EC) No 1272/2008
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 http://www.giftinfo.uni-mainz.d 22 Hazard identification 2.1 Classification of the sub Classification according to Classification according to GHS05 GHS05 Clabelling according to Reg Classification get Hazard-determining comports Sodium Hydroxide Hazard statements H290 May be corrosive to met H314 Causes severe skin but Precautionary statements P260 Do not breathe dust/fum P280 Wear protective gloves. 	de/ pstance or mixture Regulation (EC) No 1272/2008 prosive to metals. severe skin burns and eye damage. ulation (EC) No 1272/2008 nents of labelling: trals. ms and eye damage. ne/gas/mist/vapours/spray. /protective clothing/eye protection/face protection.
 http://www.giftinfo.uni-mainz.d 2 Hazard identification 2.1 Classification of the sub Classification according to Classification according to GHS05 Met. Corr.1 - H290 May be co Skin Corr. 1A - H314 Causes 2.2 Label elements Labelling according to Reg GHS05 Signal word Danger Hazard-determining compo Sodium Hydroxide Hazard statements H290 May be corrosive to me H314 Causes severe skin bui Precautionary statements P260 Do not breathe dust/fun P280 Wear protective gloves, P301+P330+P331 IF SWALL 	betance or mixture Regulation (EC) No 1272/2008 prrosive to metals. severe skin burns and eye damage. ulation (EC) No 1272/2008 nents of labelling: trals. rns and eye damage. ne/gas/mist/vapours/spray.

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PRODUCT: TARTRATE CRYSTAL REMOVER F (continued of page 1) 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. P401 Store in accordance with local/regional/national/international regulations. 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: Solution of substances listed below with non declarable additions. · Dangerous components: CAS NO. Description Index R-phrases % 1310-73-2 Sodium Hydroxide >30,0 EC Number: 215-185-5 Record number 01-2119457892-27 🔗 Met. Corr.1 - H290, Skin Corr. 1A -H314

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 eye 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); *(continued on page 3)*

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(continued of page 2) 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 Not known.
- 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

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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Dispose of the material collected according to regulations.
 - Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation.6.4 Additional information:

07 Handling and storage

• Handling

- **7.1 Information for safe handling:** 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:

(continued on page 4)

Other regulations, limitations and prohibitive regulations see chapter 15

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Store away from foodstuffs.

- Further information about storage conditions: Protect from frost.
- Protect from heat and direct sunlight.
- Storage class
 - В
- 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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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: Use breathing protectiony when aerosol or mist is formed (FFP2SL) 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

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 observed.
- 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

9.1 Information on basic physica	and chemical properties	
Appearance		
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Smell:	Odourless	
Odour threshold:	Not determined.	
ph-value:	at 20 °C 12,5+-0,3 (10,000 g/l Wasser g/l water)	
CHANGE IN CONDITION rang	e/value unit method	

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Reinigung und Desinfektion

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	(continued of page 4)
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100 °C
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	1,3100 - 1,3700 g/cm3 20°C
Solubility in / Miscibility with	
Water:	Not determined.
Viscosity:	
dynamic:	Not determined.
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 base metals forming 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: >2000 mg/kg (rat)
 - Dermal, LD50: >2000 mg/kg (rat) (Extrapolierung)
- 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):

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(continued of page 5) 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: 1310-73-2

Sodium Hydroxide

Daphnia magna, EC50 (48h) : >100 mg/l Leuciscus idus, LC50 (48h) : 133 mg/l

- 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 determine
- Not determined.
- BSB5-value: Not determined
- 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

06 WASTES FROM INORGANIC CHEMICAL PROCESSES 06 02

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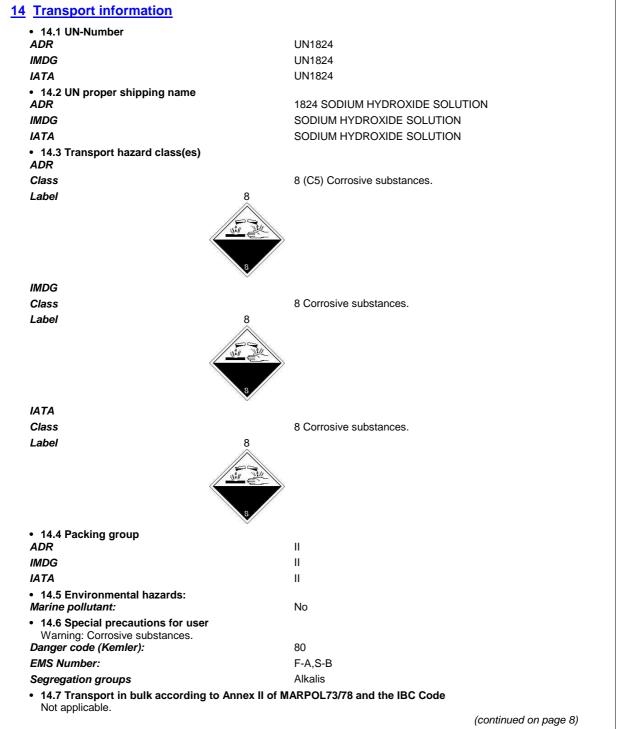
wastes from the MFSU of bases 06 02 99 wastes not otherwise specified

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. **Recommended cleaning agent:**

Water, if necessary with cleaning agent.



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Transport/Additional information:		(continued of page 7)
- Excepted quantities (EQ):	E2	
Limited quantities (LQ)	1L	
Transport category	2	
Tunnel restriction code	E	
IMDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	E2	
UN "Model Regulation": UN 1824 SODIUM HYDROXIDE SOLUTION, 8,	, 11	

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 rules (BGR) in particular consider: BGR 197: Use of skin protection

- Classification after plant security regulation (BetrSichV):
- 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

· Other regulations, limitations and prohibitive regulations

- "Arbeitsmedizinische Vorsorge" (DGUV-V6)
- 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. H314
 - Causes severe skin burns and eye damage.
- 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 Organisation

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * Data compared to the previous version altered.