



## PRORAX 6 X 500 ML D/F/GB/H/RO

WM 0713922

Order number: 0713922

Version 10.0

Revision Date 01.12.2017

Print Date 06.12.2017

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

#### 1.1 Product identifier

Trade name : PRORAX 6 X 500 ML D/F/GB/H/RO  
Identification number : 61211

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

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





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Signal word	:	Danger	
Hazard statements	:	H290 H314 H400	May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life.
Supplemental Hazard Statements	:	EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
Precautionary statements	:	P405 P102 <b>Prevention:</b> P280 <b>Response:</b> P301 + P330 + P331 P303 + P361 + P353 P305 + P351 + P338  P310 <b>Disposal:</b> P501	Store locked up. Keep out of reach of children.  Wear protective gloves/ eye protection.  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

sodium hydroxide  
sodium hypochlorite

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)



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sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-XXXX	Skin Corr. 1A; H314 Met. Corr. 1; H290  SCL >= 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 2; H319	>= 5 - < 10
sodium hypochlorite	7681-52-9 231-668-3	Skin Corr. 1B; H314 Aquatic Acute 1; H400 Met. Corr. 1; H290 STOT SE 3; H335  SCL	>= 3 - < 5

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : corrosive effects
- Risks : No information available.



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

Treatment : For specialist advice physicians should contact the Poisons Information Service.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.



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### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Store in original container. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

- sodium hydroxide**  
**1310-73-2:**
- : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 1 mg/m<sup>3</sup>
- End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects



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**sodium hypochlorite  
7681-52-9:**

Value: 1 mg/m<sup>3</sup>

: End Use: Consumers  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 0,26 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Local effects, Systemic effects  
Value: 1,55 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Local effects, Systemic effects  
Value: 3,1 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Local effects, Systemic effects  
Value: 1,55 mg/m<sup>3</sup>

**PNEC**

**sodium hypochlorite  
7681-52-9:**

: Fresh water  
Value: 0,21 mg/l

Marine water  
Value: 0,042 mg/l

intermittent release  
Value: 0,26 mg/l

**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374 (0,4 mm).

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.



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Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : slight chlorine

Odour Threshold : No data available

pH : ca. 12,0, Concentration: 10,00 g/l  
at 20 °C

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Burning rate : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 1,155 g/cm<sup>3</sup> at 20 °C

Water solubility : soluble

Solubility in other solvents : No data available



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Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, dynamic	:	ca. 650 mPa.s at 20 °C
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Heat

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.  
Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.





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Respiratory or skin sensitisation : No data available

Further information : No data available

### Components:

#### **sodium hydroxide**

##### **1310-73-2:**

Acute oral toxicity : LD50 Oral Rat: 2.000 mg/kg

Skin corrosion/irritation : Result: Corrosive

Serious eye damage/eye irritation : Result: Corrosive

#### **sodium hypochlorite**

##### **7681-52-9:**

Acute oral toxicity : LD50 Mouse: 5.800 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 10.000 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **sodium hydroxide**

##### **1310-73-2:**

Toxicity to fish : LC50 (Fish): 33 - 189 mg/l  
Exposure time: 96 h

LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l  
Exposure time: 96 h

LC50 (Poecilia reticulata (guppy)): 76 mg/l  
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 40,4 mg/l

EC50 (Daphnia magna (Water flea)): 76 mg/l  
Exposure time: 24 h

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 22 mg/l  
Exposure time: 15 min

#### **sodium hypochlorite**

##### **7681-52-9:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,34 mg/l



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	Exposure time: 96 h
	LC50 (Fish): 0,06 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,07 - 0,7 mg/l Exposure time: 24 h Test Type: static test
	EC50 (Daphnia magna (Water flea)): 0,141 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	: 10
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 100 mg/l Exposure time: 15 min
Toxicity to fish (Chronic toxicity)	: NOEC: 0,04 mg/l Species: Menidia peninsulae (tidewater silverside)
M-Factor (Chronic aquatic toxicity)	: 1

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### Components:

##### **sodium hydroxide**

##### **1310-73-2:**

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

### 12.3 Bioaccumulative potential

#### Components:

##### **sodium hydroxide**

##### **1310-73-2:**

Bioaccumulation : Species: Fish  
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent



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and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic organisms.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.
- Waste Code : European Waste Catalogue  
20 01 29\*  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

## SECTION 14: Transport information

### 14.1 UN number

- ADR : 1791  
IMDG : 1791  
IATA : 1791

### 14.2 Proper shipping name

- ADR : HYPOCHLORITE SOLUTION  
IMDG : HYPOCHLORITE SOLUTION  
IATA : Hypochlorite solution

### 14.3 Transport hazard class

- ADR : 8  
IMDG : 8  
IATA : 8

### 14.4 Packing group

- ADR  
Classification Code : C9  
Packaging group : III  
Hazard Identification Number : 80  
Labels : 8



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Tunnel restriction code : (E)  
**IMDG**  
Packaging group : III  
Labels : 8  
EmS Number : F-A, S-B  
**IATA**  
Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packaging group : III  
Labels : 8

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

#### IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

For personal protection see section 8.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

: Directive 96/82/EC does not apply

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 000067	200 000067

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: Not applicable  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Not applicable

according to Detergents Regulation EC 648/2004 : <5% Amphoteric surfactants, Chlorine-based bleaching agents



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Diğer kurallar : 13 Aralık 2014 tarihli, 29204 sayılı, "T.C. Çevre ve Şehircilik Bakanlığı Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmeliği" ne uygun düzenlenmiştir. Maddelerin ve Karışımların Sınıflandırılması, Etiketlenmesi ve Ambalajlanması Hakkında Yönetmelik. 11 Aralık 2013 tarihli, 28848 mükerrer sayılı, T.C. Çevre ve Şehircilik Bakanlığı.

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

### Further information

Classification procedure:	H290	Calculation method
	H314	On basis of test data.
	H318	On basis of test data.
	H400	Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative



Werner & Mertz  
Professional

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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