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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Cleaning agent. Flux remover, for the ultrasonic bath, without tensides, concentrate.

Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Company name: DR.H.STAMM GmbH Chemische Fabrik
Street: Heinrichstr. 3 – 4
Place: 12207 Berlin, GERMANY
Telephone: +49 30 76880-280
e-mail: info@dr-stamm.de
Internet: www.dr-stamm.de
Responsible Department: sdb@dr-stamm.de, Tel.: +49 30 76880-258

1.4. Emergency telephone number: 24-hours-emergency: Giftnotruf Berlin: +49 30 30686700 (german, english)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Disodium metasilicate pentahydrat

Sodium hydroxide; caustic soda

Signal word: Danger**Pictograms:****Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 7732-18-5 | Water | | | 80-90 % |
| | 213-791-2 | | | |
| 497-19-8 | sodium carbonate | | | <5,0 % |
| | 207-838-8 | 011-005-00-2 | 01-2119485498-19 | |
| | Eye Irrit. 2; H319 | | | |
| 10213-79-3 | Disodium metasilicate pentahydrat | | | <3,0 % |
| | 229-912-9 | | 01-2119449811-37 | |
| | Skin Corr. 1B, STOT SE 3; H314 H335 | | | |
| 1310-73-2 | Sodium hydroxide; caustic soda | | | <1,0 % |
| | 215-185-5 | 011-002-00-6 | 01-2119457892-27 | |
| | Skin Corr. 1A; H314 | | | |
| 1336-21-6 | ammonia ... % | | | <2,5 % |
| | 215-647-6 | | 01-2119488876-14 | |
| | Skin Corr. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H314 H335 H400 H411 | | | |
| 22042-96-2 | Phosphonate | | | <2,0 % |
| | 244-751-4 | | 01-2119514449-36 | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Change contaminated clothing.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of Water and soap.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Consult physician.

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

No symptoms known up to now.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water. Foam. Atomized water.

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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Nitrogen oxides (NOx). Carbon dioxide (CO2).

5.3. Advice for firefighters

Protective clothing.

Additional information

Material is not combustible. Extinguishing materials should be selected according to the surrounding area.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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

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****Advice on safe handling**

No special technical protective measures are necessary.

Advice on protection against fire and explosion

Product is not: Oxidizing. Flammable. explosive.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store only in original container. Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|------------------|-----|-------------------|-----------|---------------|--------|
| 1310-73-2 | Sodium hydroxide | - | - | | TWA (8 h) | WEL |
| | | - | 2 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|-----------------------------------|----------------|----------|------------------------|
| 10213-79-3 | Disodium metasilicate pentahydrat | | | |
| Consumer DNEL, long-term | | oral | systemic | 0,74 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | systemic | 1,49 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,55 mg/m ³ |
| Worker DNEL, long-term | | inhalation | systemic | 6,22 mg/m ³ |
| 1310-73-2 | Sodium hydroxide; caustic soda | | | |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| 22042-96-2 | Phosphonate | | | |
| Consumer DNEL, long-term | | oral | systemic | 1,9 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 1,9 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|-----------------------------------|------------|
| 10213-79-3 | Disodium metasilicate pentahydrat | |
| Freshwater | | 7,5 mg/l |
| Marine water | | 1 mg/l |
| Micro-organisms in sewage treatment plants (STP) | | 1000 mg/l |
| 22042-96-2 | Phosphonate | |
| Freshwater | | 0,52 mg/l |
| Marine water | | 0,052 mg/l |
| Freshwater sediment | | 108 mg/kg |
| Marine sediment | | 10,8 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 20 mg/l |
| Soil | | 174 mg/kg |

8.2. Exposure controls**Appropriate engineering controls**

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work.

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: PE (polyethylene). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).

Tested protective gloves are to be worn: EN 374

Skin protection

Skin protection: not required.

Respiratory protection

Respiratory protection not required.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid
Colour: clear, yellow
Odour: like: Ammonia

pH-Value (at 20 °C): 12,5 (conc.) 10,7 (1 %) **Test method** DGF H-III 1

Changes in the physical state

Melting point: -6 °C
Initial boiling point and boiling range: >100 °C
Flash point: ---

Explosive properties

not Explosive.

Oxidizing properties

not oxidizing.

Density (at 20 °C): 1,08 g/cm³ DIN 12791

Water solubility: complete miscible

SECTION 10: Stability and reactivity**10.1. Reactivity**

Exothermic reactions with: acid, concentrated.

10.2. Chemical stability

The product is chemically stable under normal ambient conditions.

10.3. Possibility of hazardous reactions

None, in case of proper use.

10.4. Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapors.

10.5. Incompatible materials

acid, concentrated.

10.6. Hazardous decomposition products

None, in case of proper use.

Further information

Do not mix with other products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | |
|------------|-----------------------------------|---------------|---------|-----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | |
| | oral | LD50 mg/kg | 4090 | Rat | IUCLID |
| 10213-79-3 | Disodium metasilicate pentahydrat | | | | |
| | oral | LD50 mg/kg | 1349 | rat | |
| | dermal | LD50 mg/kg | 5000 | rat | |
| 1310-73-2 | Sodium hydroxide; caustic soda | | | | |
| | oral | LD50 mg/kg | 2000 | rat | |
| 22042-96-2 | Phosphonate | | | | |
| | oral | LD50 mg/kg | >5000 | Ratte | |
| | dermal | LD50 mg/kg | >5000 | Kaninchen | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Risk of serious damage to eyes.

Irritant effect on the skin: irritant.

Sensitising effects

Based on available data, the classification criteria are not met.

no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

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| CAS No | Chemical name | | | | | |
|------------|-----------------------------------|----------------|-----------|---------------------|---------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | | |
| | Acute fish toxicity | LC50 300 mg/l | 96 h | Lepomis macrochirus | | |
| | Acute crustacea toxicity | EC50 265 mg/l | 48 h | Daphnia magna | IUCLID | |
| 10213-79-3 | Disodium metasilicate pentahydrat | | | | | |
| | Acute fish toxicity | LC50 3185 mg/l | 96 h | | | |
| | Acute crustacea toxicity | EC50 1700 mg/l | 48 h | Daphnia magna | | |
| 1310-73-2 | Sodium hydroxide; caustic soda | | | | | |
| | Acute fish toxicity | LC50 125 mg/l | 96 h | Gambusia affinis | SDB Lieferant | |
| | Acute crustacea toxicity | EC50 40,4 mg/l | 48 h | Ceriodaphnia | ECHA | |

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

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

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Waste disposal number of used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information**Other applicable information**

Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

2004/42/EC (VOC): 0 % (0 g/l)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

Data changed from previous versions: 2.1., 3.2., 8.1., 9.1., 11.1., 12.1., 12.2., 13.1., 15.1., 16.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |

Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Further Information

Training instructions: Notice the directions for use on the label.

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|----------------|--------|----|----|-----------|-----|----|----|---------------|
| 1 | TICKOPUR TR 14 | IS, PW | 0 | 35 | 8a, 9, 13 | 8a | 0 | 26 | |

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)