Reviewed on: 15.10.2014

according to 1907/2006/EC, Article 31

1590400

Printing date: 15.10.2014



| • 1.1 Product details: | |
|---|------------|
| • Trade name: FLOOR CLEANER BR | |
| Article number: 413000 | |
| 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 | |
| <u>Hazard identification</u> 2.1 Classification of the substance or mixture | |
| | |
| 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 | |
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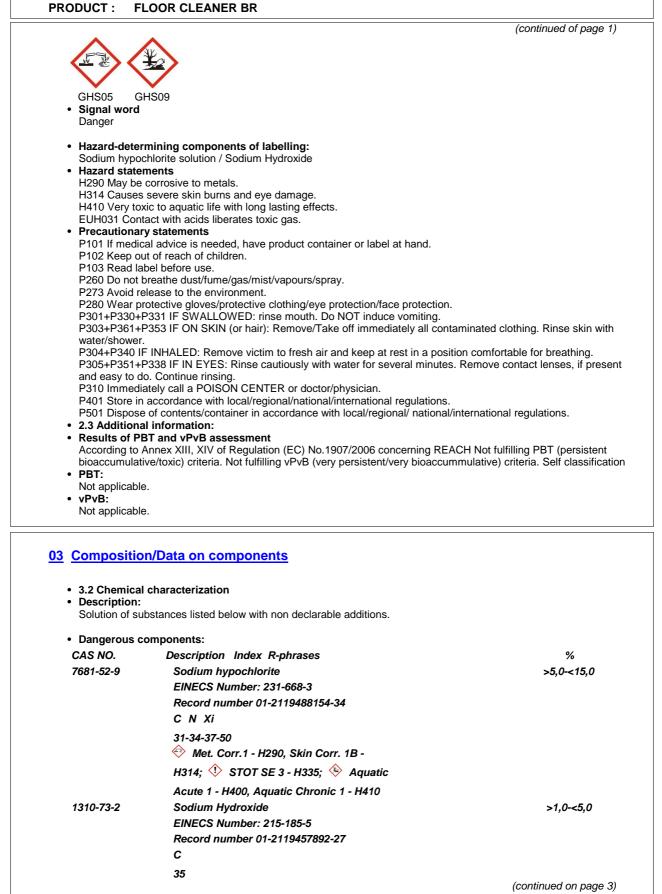
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(continued of page 2) 🧇 Met. Corr.1 - H290, Skin Corr. 1A -H314 · Regulation (EC) No 648/2004 on detergents / Labelling for contents chlorine-based bleaching agents 5 - 15% Additional information For the wording of the listed risk phrases refer to section 16. 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 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: Hydrogen chloride (HCI) Chlorine (Cl2)

• 5.3 Advice for firefighters

Protective equipment:

Keep breathing equipment ready. Wear protective equipment. Keep unprotected persons away.

Additional information

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None

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06 Accidental release measures

- 6.1 Person-related safety precautions: Put on breathing apparatus. Wear protective equipment. Keep unprotected persons away.
- 6.2 Measures for environmental protection:
- Inform respective authorities in case product reaches water or sewage system.
- 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:
 Other regulations, limitations and prohibitive regulations see chapter 15

07 Handling and storage

• Handling

- 7.1 Information for safe handling: Do not seal containers gas-tight. Keep away from heat and direct sunlight. Prevent formation of aerosols. 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.
- Storage class
- 8B Storage classes according TRGS 510 Do not store together with acids
- Class according to regulation on inflammable liquids:
- 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 7782-50-5 chlorine

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| | | | (continued of page 4) | | |
| AGW | | | | | |
| | Long-term value | 1,5 | mg/m3 | | |
| | | 0,5 | ppm | | |
| | 1(I);DFG, EU, Y | | | | |
| MAK | | | | | |
| | Long-term value | 1,5 | mg/m3 | | |
| | | 0,5 | ppm | | |
| | ional information: sts that were valid during the co | ompilation were used as basis. | | | |
| • 8.2 E | xposure controls | | | | |
| Wash Keep Instar Avoid Avoid Other • Breat of int Use b prohi • Prote regul of ski • Mater The s varies the gl • Penet The e obser • Eye p regul • Body Chem | 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. Avoid contact with the eyes and skin. Other regulations, limitations and prohibitive regulations see chapter 15 Breathing equipment: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Filter B 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 | | | | |

09 Physical and chemical properties

| 9.1 Information on basic physical and chemical properties | | | | |
|---|-----------------------------|--|--|--|
| Appearance | | | | |
| Appearance: | | | | |
| Form: | Fluid | | | |
| Colour: | Yellowish | | | |
| Smell: | Chlorine-like | | | |
| Odour threshold: | Not determined. | | | |
| CHANGE IN CONDITION range/value unit method | | | | |
| Melting point/Melting range: | Not determined | | | |
| Boiling point/Boiling range: 96 °C | | | | |
| Flash point: | Not applicable | | | |
| Inflammability (solid, gaseous) | Not applicable. | | | |
| Ignition temperature: | Not applicable | | | |
| Decomposition temperature: Not determined. | | | | |
| Self-inflammability | lammability Not determined. | | | |
| Panger of explosion: Product is not explosive. | | | | |
| Critical values for explosion: | | | | |

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| | |

| | (continued of | page 5) |
|----------------------------------|--|---------|
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Steam pressure: | Not determined. | |
| Density | 1,2000 - 1,2800 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
- Contact with acids releases toxic gases. • 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. Reacts with acids releasing chlorine.

• **10.6 Dangerous products of composition:** Hydrogen chloride (HCI) Chlorine in presence of acid products

11 Toxicological information

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

```
7681-52-9 Sodium hypochlorite
Oral, LD50: 5001 mg/kg (rat)
Dermal, LD50: 5001 mg/kg (Rabbit)
Inhalative, LC50 (4h): 10,6 mg/l (rat)
```

- Primary irritant effect:
- on the skin:
- 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.

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PRODUCT: FLOOR CLEANER BR (continued of page 6) **12 Ecological information** 12.1 Toxicity Aquatic toxicity: 7681-52-9 Sodium hypochlorite fish, LC50 (96h) : 0,01 mg/l daphnie, EC50 (48h) : 0,01 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 determined. BSB5-value: Not determined AOX-indication: Product contains no organic bounded halogen Application of the product, in presence of organic materials, can cause formulation of AOX · General notes: Very toxic for aquatic organisms 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 wastes from the MFSU of bases 06 02 99 wastes not otherwise specified Uncleaned packagings: **Recommendation:** Disposal must be made according to official regulations. (continued on page 8)

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• Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

| 4 Transport information | |
|--|--|
| 14.1 UN-Number | |
| ADR | UN1791 |
| IMDG | UN1791 |
| ΙΑΤΑ | UN1791 |
| 14.2 UN proper shipping name ADR | 1791 HYPOCHLORITE SOLUTION |
| IMDG | HYPOCHLORITE SOLUTION |
| ΙΑΤΑ | HYPOCHLORITE SOLUTION |
| 14.3 Transport hazard class(es) ADR | |
| Class | 8 (C9) Corrosive substances. |
| Label 8 | |
| IMDG | |
| Class | 8 Corrosive substances. |
| Label 8 | |
| ΙΑΤΑ | |
| Class | 8 Corrosive substances. |
| Label 8 | |
| 14.4 Packing group | |
| ADR | II |
| IMDG | II |
| ΙΑΤΑ | II |
| • 14.5 Environmental hazards: Marine pollutant: | Yes |
| 14.6 Special precautions for user Warning: Corrosive substances. | 20 |
| Danger code (Kemler): | 80 E A S B |
| EMS Number: | F-A,S-B |
| Segregation groups 14.7 Transport in bulk according to Annex II Not applicable. | Alkalis of MARPOL73/78 and the IBC Code |
| • Transport/Additional information: | |
| Excepted quantities (EQ): | E2 |
| Limited quantities (LQ) | 1L |
| Transport category | 2 |
| | |

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Tunnel restriction code

F

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UN "Model Regulation":

UN 1791 HYPOCHLORITE SOLUTION, 8, II, ENVIRONMENTALLY HAZARDOUS

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 26 Respirators G 24 Skin diseases (with exception of skin cancer) Germany: Regard the principles of the professional organizations rules (BGR) in particular consider: BGR 190: Use of respirators BGR 197: Use of skin protection · Classification according to VbF:

- Classification after plant security regulation (BetrSichV):
- Technical instructions (air): No further details
- · Water hazard class: In accordance with VwVwS appendix 4 Water hazard class 2 (£) : 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. H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

R 31 Contact with acids liberates toxic gas.

- R 35 Causes severe burns.
- R 34 Causes burns.
- R 37 Irritating to respiratory system.
- R 50 Very toxic to aquatic organisms.
- **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

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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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent * Data compared to the previous version altered.