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

· 1.1 Product identifier

Trade name:

BOOSTER H

· Article number:

413721

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 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Manufacturer: 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 telephone number

TEL: +49 (0) 6131 19240

Poison Information Center Mainz, Germany

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

02 SECTION 2: Hazards identification

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



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed. Skin Irrit. 2 - H315 Causes skin irritation. STOT SE 3 - H335 May cause respiratory irritation.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting

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

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS05

GHS07

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· Signal word

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Danger

· Hazard-determining components of labelling:

Hydrogen peroxide

Hazard statements

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

2.3 Other hazards

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 SECTION 3: Composition/information of ingredients

- 3.2 Mixtures
- Description:

Solution of substances listed below with non declarable additions.

· Dangerous components:

7722-84-1 Hydrogen peroxide

% >30,0

CAS Number

EC Number: 231-765-0

Record number 01-2119485845-22

Ox. Liq. 1 - H271; Skin Corr. 1A

- H314; 🕚 Acute Tox. 4 - H302, Acute

Tox. 4 - H332, STOT SE 3 - H335; Aquatic

Chronic 3 - H412

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

oxygen-based bleaching agents

>= 30%

04 SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

Personal protection for the First Aider.

· After inhalation

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Supply fresh air or oxygen; call for doctor.

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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.

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.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

Danger

No further relevant information available.

Treatment

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Typical corrosive acid burns. Symptoms of acute poisoning: Eyes: shooting pain, opacity of the cornea (possibly irreversible) Skin: irritations, chemical burns, possible shock Respiratory tract: tussive irritation, burning sensation to the mucous membranes

Information see: GESTIS-database on hazardous substances www.dguv.de/ifa/gestis/gestis-stoffdatenbank/

05 SECTION 5: Firefighting 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 arising from the substance or mixture

In the case of decomposition release of oxygen - can be fire-promoting

Danger of high pressure formation and bursting during the decomposition in closed systems and pipes.

· 5.3 Advice for firefighters

Protective equipment:

Keep breathing equipment ready.

Wear protective equipment. Keep unprotected persons away.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

06 SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Inform respective authorities in case product reaches water or sewage system.

Dilute with much water.

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

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

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Dispose of the material collected according to regulations. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

Other regulations, limitations and prohibitive regulations see chapter 15

07 SECTION 7: Handling and storage

- Handling
- 7.1 Precautions for safe handling

Do not seal containers gas-tight.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Do not mix with alkaline products

Information about protection against explosions and fires:

Release of oxygen promotes burning.

Technically and precautionary measures

Store in the original bundle.

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

Store only in the original container.

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:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Protect from frost.

Storage class

5.1 B

Storage classes according TRGS 510

7.3 Specific end use(s)

No further relevant information available.

08 SECTION 8: Exposure controls/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:

7722-84-1 Hydrogen peroxide

MAK

Long-term value 0,71 mg/m3

> 0,5 ppm

• DNELs

Hydrogen peroxide

DNEL: 3 mg/m3 (Worker, short time/lok, inhalation) DNEL: 1,4 mg/m3 (Worker,long time/lok,inhalation) DNEL: 1,93 mg/m3 (Public,short time/lok,inhalat.) DNEL: 0,21 mg/m3 (Public,long time/lok,inhalation)

PNECs

Hydrogen peroxide 7722-84-1

PNEC: 0,013 mg/l (Fresh water) PNEC: 0,013 mg/l (Seawater) PNEC: 0,014 mg/l (Sporadic release) PNEC: 4,66 mg/l (Sewage treatment) PNEC: 0,047 mg/kg (Sediment (fresh water) PNEC: 0,047 mg/kg (Sediment (Seawater)

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PNEC: 0,002 mg/kg (Ground)

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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

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Instantly remove any soiled and impregnated garments.

Avoid contact with the skin.

Avoid contact with the eyes.

Other regulations, limitations and prohibitive regulations see chapter 15

- Breathing equipment: Use breathing protectiony when aerosol or mist is formed (FFP2SL) Combination filter ABEK Other regulations, limitations and prohibitive regulations see chapter 15
- Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended. Acid resistant protection gloves (Butyl india rubber, Viton) - EN 374 Other regulations, limitations and prohibitive regulations see chapter 15
- 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
- Eye protection: Safety glasses with side protection (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 SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties

3.1 michination on basic physical and chemical properties	
Appearance	
Appearance:	
Form:	Fluid
Colour:	Colourless
Smell:	Weak, characteristic
Odour threshold:	Not determined.
ph-value:	at 20 °C 3,0+-0,5 (10,000 g/l water)
CHANGE IN CONDITION range/value unit method	
Melting point/Melting range:	-33 °C
Boiling point/Boiling range:	108 °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	1,1020 - 1,1620 g/cm3 20 °C
Solubility in / Miscibility with	
Water:	Not determined.
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(continued of page 5) Viscosity: dynamic: Not determined. kinematic: Not determined. Solvent content: Organic solvents: 0.00 % 9.2 Other information No further relevant information available.

10 SECTION 10: Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Loss of oxygen on heating

10.3 Possibility of hazardous reactions

Decomposition under release of oxygen.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

· Dangerous reactions

Violent reactions with strong alkalis and oxidizing agents.

Reacts with heavy metals.

Reacts with base metals forming hydrogen.

Danger of high pressure formation and bursting during the decomposition in closed systems and pipes.

10.6 Hazardous decomposition products

Oxygen

11 SECTION 11: Toxicological information

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

7722-84-1 Hydrogen peroxide

Oral, LD50: 418 mg/kg (rat) (US EPA Guidelines)

Dermal, LD50: 4060 mg/kg (Rabbit)

- · Primary irritant effect:
- on the skin:

Irritant for skin and mucous membranes.

on the eye:

Strong irritant with the danger of severe eye injury.

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:

Harmful

Irritant

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12 SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity:

7722-84-1 Hydrogen peroxide

LC50 (96h): 16,4 mg/l (Pimephales promelas) EC50 (48h): 2,4 mg/l (Daphnia magna) NOEC (21d): 0,63 mg/l (Daphnia magna) ErC50 (72h): 1,38 mg/l (Skeletonema costatum) NOEC (72h): 0,63 mg/l (Skeletonema costatum)

· 12.2 Persistence and degradability

No further relevant information available.

· Behaviour in environmental systems:

No further relevant information available.

12.3 Bioaccumulative potential

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 SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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 NOT OTHERWISE SPECIFIED IN THE LIST 16 09 oxidising substances 16 09 03

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peroxides, for example hydrogen peroxide

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- · Uncleaned packagings:
- Recommendation:
 - Disposal must be made according to official regulations.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 SECTION 14: Transport information

• 14.1 UN-Number

ADR UN2014 **IMDG** UN2014 UN2014 **IATA**

· 14.2 UN proper shipping name

2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION **ADR IMDG** HYDROGEN PEROXIDE, AQUEOUS SOLUTION HYDROGEN PEROXIDE, AQUEOUS SOLUTION **IATA**

• 14.3 Transport hazard class(es)

ADR

5.1 (OC1) Oxidising substances. Class

Label





IMDG

Class 5.1 Oxidising substances.

Label





IATA

5.1 Oxidising substances. Class

Label





• 14.4 Packing group

ADR П П **IMDG IATA** П

• 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Oxidising substances.

Danger code (Kemler): 58 EMS Number: F-H,S-Q

- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.
- · Transport/Additional information:

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Excepted quantities (EQ): F2 Limited quantities (LQ) 1L Transport category 2 Tunnel restriction code F **IMDG**

Limited quantities (LQ) 1L Excepted quantities (EQ) F2

UN "Model Regulation":

UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

15 SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

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

G 26 Respirators

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 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 SECTION 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

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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.

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· Abbreviations and acronyms:

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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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) 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.