according to Regulation (EC) No 1907/2006 (REACH)

HAVR

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SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Identification / trade name: Art. 2460, BW 50 A

REACH registration number: not notifiable

UFI: G2YR-Y23U-870G-MR4F

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

Use of the substance / mixture:

Cleaning agent

1.3 Details of the supplier of the safety data sheet

Supplier / Manufacturer: HWR-CHEMIE GmbH

Moosfeldstrasse 7 D-82275 Emmering

 Telephone:
 0049-8141-51030

 Telefax:
 0049-8141-510355

 E-mail:
 info@hwr-chemie.de

E-mail (competent person): infoSDB@hwr-chemie.de

Information contact: Laboratory

1.4 Emergency phone

Emergency phone Germany: 0049-8141-51030 (only during office hours) **Emergency phone Austria:** 0043 1 406 43 43 (poison information centre)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2, H315; Eye Irrit. 2, H319

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Warning.

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Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves and 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.

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

P332 + P337 + P313 If skin irritation / eye irritation occurs: Get medical advice / attention.

2.3 Other hazards

The substances in this mixture do not meet the PBT/vPvB criteria of REACH, annex XIII.

The substances in this mixture do not have any endocrine disrupting properties.

SECTION 3. Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterization

Mixture of surfactants, builders, alkalis and auxiliaries in water.

Hazardous ingredients

- 1 5 % Alcohol C8-14, aliphatic, alkoxylated, polymer, Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412
- 2 5 % Potassium hydroxide (45 %), EG 215-181-3, CAS 1310-58-3, Acute Tox. 4, H302; Skin corr. 1A, H314; Met. Corr. 1, H290

Additional information

Full text of hazard classes and H-phrases: see section 16

SECTION 4. First aid measures

4.1 Description of first aid measures

General informations: In case of persistent symptoms seek medical advice. Remove contaminated

clothing. In case of unconsciousness place patient into stable side position for transportation. Never give fluids or induce vomiting if patient is unconscious

or is having convulsions.

In case of inhalation: Provide affected person with fresh air and seek medical advice depending on the

symptoms.

In case of skin contact: Contaminated, soaked clothing should be immediately removed. Wash skin

thoroughly with soap and water. Immediate medical treatment required because

corrosive injuries that are not treated are hard to cure.

In case of eye contact: Immediately wash affected eyes for at least 15 minutes under running water with

eyelids held open, consult an eye specialist.

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In case of ingestion: Rinse mouth immediately and then drink plenty of water. Do not induce vomiting.

Seek medical advice at once.

Additional hints: Self-protection of the first aider: wear protective clothing, gloves and safety

goggles (see Section 8).

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes may cause reddening, running eyes and smarting pain. Prolonged contact may lead to irreversible damage up to blindness. Ingestion may cause severe pain in the digestive tract. Possible burn of the upper part of gastrointestinal tract. Inhalation may cause cough and shortness of breath. Risk of pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no known specific antidote.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet / foam / CO2 / dry extinguishing powder Unsuitable extinguishing media: Full water jet, extinguishing powder with ammonium salts.

5.2 Special hazards arising from the substance or mixture

Spilled material reacts with certain metals (e.g. lead, aluminium, zinc and magnesium) to form hydrogen gas. In case of fire may be liberated: corrosive vapors.

5.3 Advice for fire-fighters

The product itself is not flammable. Co-ordinate fire-fighting measures to the fire surroundings. Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective equipment.

6.2 Environmental precautions

Large quantities of spills should be contained by. Do not allow to enter undiluted into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material and dispose of according to local regulations. Acids may be used for pH neutralization.

6.4 Reference to other sections

Observe protective measures in sections 8 and disposal considerations in section 13.

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SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Wear protective clothing. Open carefully and keep container closed when not in use. General hygiene measures:

- Eating, drinking or smoking is prohibited in areas, where work is performed.
- Wash your hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.

Precautions against fire and explosion

Product does not burn itself.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in tightly closed original container in a dry and cool place. Storage compatibility and limitations according to TRGS 510 must be observed.

7.3 Specific end uses

Observe product information sheet.

eCl@ss (8.0): 30-02-16-90 / GISCODE: GG40

SECTION 8. Exposure controls / Personal protection

8.1 Control parameters

Does not contain substances fixing an occupational exposure limit.

8.2 Exposure controls / Personal protection equipment

Appropriate engineering controls

See section 7. No additional measures necessary.

Personal protection equipment

Respiratory protection: not applicable

Hand protection: Tested gloves with breakthrough time >= 8 hours made from NR 0.5 mm, CR 0.5 mm,

NBR 0.35 mm, Butyl 0.5 mm, FKM 0.4 mm, PVC 0.5 mm

Eye protection: use safety goggles
Protective clothing: usual work clothes

General health and safety measures

Respect good personal hygiene. Do not drink, eat or smoke while handling.

Environmental exposure controls

See section 6 and 7.

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SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state: liquid
Colour: colourless
Odour: mild

pH value (undiluted): approx. 13.9 pH value (1 %): approx. 11.0

Melting point/Freezing point (°C): < 0

Boiling temperature (°C): approx. 100 Flashpoint (°C): not applicable not applicable Flammability (solid, gas): Lower explosion limit: not determined not determined **Upper explosion limit:** approx. 23 Vapour pressure (hPa): Relative vapor density: not determined Density (20 °C): approx. 1.15

Solubility: completely mixable with water

Partition coefficient (KOW): not determined not determined Decomposition temperature: not determined

Dynamic viscosity (mPas): < 10

Particle properties: not applicable

9.2 Other information

Other safety characteristics

No other physical and chemical data has been recorded.

SECTION 10. Stability and Reactivity

10.1 Reactivity

Reacts with strong acids under intense heat development. Forms with ammonium salts hazardous gases and vapours (ammonia). May heat up during dilution.

10.2 Chemical stability

Stable under the specified storage conditions.

10.3 Possibility of hazardous reactions

There are expected no hazardous reactions for intended use.

10.4 Conditions to avoid

No hazardous conditions known. Note the information about handling and storage in section 7.

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10.5 Incompatible materials

Avoid contact with aluminum, magnesium, tin, zinc and other base metals (hydrogen gas formation possible). Attacks some types of glass, polyester (e.g. PET) and other plastics.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Potassium hydroxide (45 %) ATE oral = 1111 mg/kg body weight (literature)

Alcohol C8-14, aliphatic, alkoxylated, polymer LD50 oral > 300-2000 mg/kg body weight (rat) (OECD 423)

Acute Toxicity Estimate of the mixture: ATE mix (oral) > 2000 mg/kg body weight

Skin Corrosion / Irritation

Mixture is classified as irritating to the skin.

Serious Eye Damage / Irritation

Mixture is classified as irritating to the eyes.

Sensitisation

Mixture does not contain any sensitising substances.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Mixture does not contain any substances which are classified as carcinogenic, mutagenic or toxic for reproduction.

Specific target organ toxicity (single exposure)

Mixture does not contain any substances with specific target organ toxicity.

Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity.

Aspiration hazard

Not classified. Mixture does not contain any hydrocarbons.

11.2 Information on other hazards

Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

Other information

No further data available.

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SECTION 12. Ecological information

The available data refer to the substances in the mixture. The mixture as a whole has not been tested.

12.1 Toxicity

Alcohol C8-14, aliphatic, alkoxylated, polymer

Acute toxicity fishes:

LC50 (96 h) > 10 - 100 mg/L (Brachydanio rerio) (OECD 203)

Acute toxicity crustacea:

EC50 (48 h) > 10 - 100 mg/L (Daphnia Magna) (OECD 202)

Acute toxicity algae:

EC50 (72 h) > 10 - 100 mg/L (Scenedesmus subspicatus) (92/69/EWG. C.3)

Long-term toxicity algae:

NOEC (72 h) > 0.1 - 1 mg/L (Scenedesmus subspicatus) (92/69/EWG. C.3)

12.2 Persistence and degradability

Alcohol C8-14, aliphatic, alkoxylated, polymer Readily biodegradable (>60%, OECD 301B)

Potassium hydroxide (45 %)

Hydrolysis in water. Methods for determining the biological degradability are not applicable to inorganic substances.

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential

Alcohol C8-14, aliphatic, alkoxylated, polymer Not expected to bioaccumulate.

Potassium hydroxide (45 %) Not expected to bioaccumulate.

12.4 Mobility in soil

Alcohol C8-14, aliphatic, alkoxylated, polymer

Absorption to solid soil phase is possible. Substance is not volatile.

Potassium hydroxide (45 %)

No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances which are identified as PBT or vPvB.

12.6 Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

12.7 Other adverse effects

The mixture does not contain any substances which are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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SECTION 13. Disposal considerations

13.1 Waste treatment methods

Recommendation

Cleaning concentrates should not be disposed of via wastewater. Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations.

Waste codes/waste designations according to EWC

20 01 29 (detergents containing hazardous substances)

Packaging

Contaminated package

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations. Waste code 15 01 10 (packaging containing residues of or contaminated by hazardous substances)

Cleaned package

Non contaminated and clean packagings can be used for recycling.

SECTION 14. Transport information

14.1 UN number or ID number

1814

14.2 UN Proper shipping name:

ADR / RID:

Potassium hydroxide solution

IMDG-Code / ICAO-TI / IATA-DGR:

Potassium hydroxide solution

14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:

8

14.4 Packing group

Ш

14.5 Environmental hazards

Not classified.

14.6 Special precautions for user

See section 6 and 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15. Regulatory information

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

EU regulations

Subject to the Regulation (EC) No. 648/2004 on detergents.

National regulations

Maternity Protection Act (MuSchG): not applicable.

Major Accidents Ordinance (12. BlmSchV): not applicable.

Observe employment restrictions for young people (§ 22 JArbSchG).

Water hazard class: WGK 2 (in accordance with German regulation AwSV)

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16. Other information

Indication of changes

Revised sections: 1, 15

Hazard statements referred to in Section 2 and 3 i.a.w. Regulation (EC) No 1272/2008

Met. Corr. 1, H290 = Corrosive to metals, category 1, May be corrosive to metals.

Acute Tox. 4, H302 = Acute toxicity, category 4, Harmful if swallowed.

Skin Corr. 1A/B/C, H314 = Skin corrosion / irritation, category 1A/B/C, Causes severe skin burns and eye damage.

Skin Irrit. 2, H315 = Skin corrosion / irritation, category 2, Causes skin irritation.

Eye Irrit. 2, H319 = Eye damage / irritation, category 2, Causes serious eye irritation.

Key literature references and sources for data

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008

All data were taken from the safety data sheets of our sub-suppliers, where available. Missing data were taken from the Substance Database GESTIS of the Institute for Occupational Safety and Health of the German statutory accident insurance or from the database of the European Chemicals Agency (ECHA).

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Legend

ABEK Filter designation

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE mix Acute Toxicity Estimates for mixtures

AVV European waste list regulation

AwSV Ordinance on systems for handling water-polluting substances

Butyl Butyl rubber

CAS (Registration number) Chemical Abstracts Service

CLP Regulation on classification, labelling and packaging of substances and mixtures

CMR Carcinogenicity, mutagenicity, reproductive toxicity

CR Chloroprene rubber

EC50 Median effective concentration

EG (Registration number) European Union

ErC50 Median effective concentration

FIFRA Federal Insecticide, Fungicide and Rodenticide Act

FKM Fluorocarbon rubber

GISCODE Labelling system of the professional associations in the construction industry

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

BC International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI Technical Instructions For The Safe Transport of Dangerous Goods by Air

IMDG International Maritime Dangerous Goods

LC50 Lethal concentration of a substance leading to the death of 50% of the exposed organisms

LD50 Lethal dose of a substance that leads to death of 50% of the organisms exposed to it

MARPOL International Convention for the Prevention of Pollution from Ships

NBR Acrylonitrile butadiene rubber

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

NR Natural rubber

OECD Organisation for Economic Co-operation and Development

PBT Persistent, bioaccumulating, toxic
PET Polyethylene terephthalate
PTFE Polytetrafluoroethylene
PVC Polyvinyl chloride

REACH Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Convention concerning International Carriage by Rail

TRGS Technical Rules for Hazardous Substances

UN United Nations

US-EPA United States Environmental Protection Agency

VOC Volatile Organic Compounds

vPvB Very persistent, very bioaccumulating

WGK Water hazard class

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.