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

HIME

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

1.1 Product identifier

Identification / trade name: Art. 2840, PEN-EX
REACH registration number: not notifiable

UFI: 8UCQ-85AG-F80K-UTQN

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

Use of the substance / mixture:

Plastic and surface cleaner

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:
 0049-8141-510350

 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

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008.

2.2 Label elements

Regulation (EC) No 1272/2008

not applicable

Supplementary Hazard Information

EUH210 Safety data sheet available on request.

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.

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SECTION 3. Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterization

Mixture of surfactants, watersoluble solvents and auxiliaries in water.

Hazardous ingredients

5 - 15 % 1-Methoxy-2-propanol, EG 203-539-1, CAS 107-98-2, Flam. Liq. 3, H226; STOT SE 3, H336

1 - 5 % 2-Propanol, EG 200-661-7, CAS 67-63-0, Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

1 - 5 % Propylenglykolphenylether, EG 212-222-7, CAS 770-35-4, Eye Irrit. 2, H319

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: Wash thoroughly with water.

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.

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

Seek medical advice at once.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes may cause reddening, running eyes and smarting pain. Ingestion may result in nausea and stomach pain.

4.3 Indication of any immediate medical attention and special treatment needed

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

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SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet / alcohol resistant foam / CO2 / dry extinguishing powder

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated: Carbon oxides

5.3 Advice for fire-fighters

Cool closed containers exposed to fire with water spray jet.

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.

6.4 Reference to other sections

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

SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

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

No special fire protection measures are necessary.

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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.

SECTION 8. Exposure controls / Personal protection

8.1 Control parameters

Workplace exposure limits according to TRGS 900

Substances: 1-Methoxy-2-propanol

Occupational exposure limit: 100 ppm, 370 mg/m³

Top limiting and exceedance factor: 2 (I)

Notes: DFG, Y, EU

Substances: Propan-2-ol

Occupational exposure limit: 200 ppm, 500 mg/m³

Top limiting and exceedance factor: 2 (II)

Notes: DFG, Y

Substances: 2-(2-Ethoxyethoxy)ethanol Occupational exposure limit: 6 ppm, 35 mg/m³ Top limiting and exceedance factor: 2 (I)

Notes: AGS, Y, 11

Biological limits according to TRGS 903

Substances: 1-Methoxy-2-propanol Parameters: 1-Methoxypropan-2-ol Biological limit value: 15 mg/l Test material and sampling time: U b

Substances: Propan-2-ol Parameters: Acetone

Biological limit value: 25 mg/l / 25 mg/l Test material and sampling time: B b / U b

Community workplace exposure limits

Substances: 1-Methoxy-2-propanol EU limits (8h): 375 mg/m³, 100 ppm

EU limits (Short-term): 568 mg/m³, 150 ppm

Notes: Skin

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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: Skin protection recommended **Eye protection:** Safety goggles recommended

Protective clothing: not applicable

General health and safety measures

Wash hands before breaks and after work.

Environmental exposure controls

See section 6 and 7.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state: liquid
Colour: colourless
Odour: fruity

pH value (undiluted): approx. 10.5
pH value (1 %): approx. 9.0
Melting point/Freezing point (°C): approx. -9
Boiling temperature (°C): 80 - 100
Flashpoint (°C): > 61

Flammability (solid, gas): not applicable
Lower explosion limit: not determined
Upper explosion limit: not determined
Vapour pressure (hPa): not determined
Relative vapor density: not determined
Density (20 °C): approx. 1.012

Solubility: completely mixable with water

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

Dynamic viscosity (mPas): < 10

Particle properties: not applicable

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9.2 Other information

Other safety characteristics

No other physical and chemical data has been recorded.

SECTION 10. Stability and Reactivity

10.1 Reactivity

Aqueous mixture, no particular reactivity expected.

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.

10.5 Incompatible materials

Different plastics can be attacked.

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

Acute toxicity estimate (mixture): ATE mix (oral) > 2000 mg/kg bodyweight

Skin Corrosion / Irritation

Mixture does not contain any substances with skin irritation / corrosion.

Serious Eye Damage / Irritation

The mixture does not meet the criteria for classification.

Sensitisation

The sensitising substances in the mixture do not meet the criteria for classification.

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 is not classified as specific target organ toxic (single exposure).

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Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity (repeated exposure).

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.

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

This mixture does not contain any substances classified as dangerous for the environment.

12.2 Persistence and degradability

1-Methoxy-2-propanol

Fast photochemical oxidation in the air. Readily biodegradable (90-100%, OECD 301E).

Propan-2-o

Fast photochemical oxidation in the air. Readily biodegradable

Propylenglykolphenylether

Readily biodegradable (72%, OECD 301F)

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

This mixture does not contain any substances which are bioaccumulating.

12.4 Mobility in soil

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

not applicable

14.2 UN Proper shipping name:

ADR / RID:

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

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

not applicable

14.4 Packing group

not applicable

14.5 Environmental hazards

not applicable

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.

Water hazard class: WGK 1 (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, 3, 8, 9, 11, 12, 16

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

Flam. Liq 2, H225 = Flammable liquids, category 2, Highly flammable liquid and vapour.
Flam. Liq 3, H226 = Flammable liquids, category 3, Flammable liquid and vapour.
Eye Irrit. 2, H319 = Eye damage / irritation, category 2, Causes serious eye irritation.
STOT SE 3, H336 = Specific target organ toxicity (single exposure), category 3, May cause drowsiness or dizziness.

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.