SAFETY DATA SHEET

according to REACH Regulation (EC) No 1907/2006, as amended by Regulation (EC) No 878/2020

***SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING***

* 1. **Product**

**Name of the mixture: Herbow liquid detergent – horse chestnut, for white clothes**

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

**Identified use of the mixture:** liquid laundry detergent for consumer use

**Contraindicated use**: no information is available

**1.3**  **Details of the supplier of the safety data sheet:**

Name and address of manufacturing company**: Herbow International Zrt**

4400 Nyíregyháza.

Derkovits out 106/C

Phone: + 36 42 440 135

[info@herbow.hu](mailto:info@herbow.hu)

**1.4. Emergency telephone number**

Health Toxicology Information Service

Address: 1096 Budapest, Nagyvárad tér 2.

Phone: 06 80 201-199

***SECTION 2: HAZARD IDENTIFICATION***

**2.1 Classification of the substance or mixture**

**Classification of the mixture according to CLP Regulation (EC) No 1272/2008**

For the full text of the classification categories and H phrases, see section 16

* 1. **Labelling elements**

Hazard pictogram:

Warning -

Hazard statement -

Precautionary statements:

General P101 Keep the product container or label handy for medical advice.

P102 Keep out of reach of children

Prevention P264 Wash hands thoroughly after use

Remedy **-**

**Storage not applicable**

**Waste Management P501 Disposing of contents/container as waste: completely empty packaging may be disposed of in the recycling bin**

**Hazardous components** not applicable

**Additional label elements Declaration of ingredients according to Regulation (EC) No 648/2004 on detergents and detergents:**

**<5% anionic surfactants, non-ionic surfactants**

**Contain:**

**Enzymes**

**Perfumes**

**Preservative: phenoxyethanol**

**Special packaging requirements**:

Packaging with child-resistant fastenings: not applicable

Tactile danger symbol: not applicable

**2.3 Other hazards**

**Results of PBT and vPvB assessment:**

**REACH Regulation (EC) No 1907/2006** The product does not contain either PBT or

**Annex XIII, a substance evaluated as BPT or vPvB** vPvB

**criteria for substance compliance**

***SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS***

**3.1. Substances:** not applicable

**3.2. Mixtures**

**Chemical characterization:** mixture.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component name** | **Identifiers** | **%** | **Classification**  **1272/2008/EC** | **Specific concentration limits, M-factors, ATEs** |
| Sodium C12-C14-alkyl sulphate, ethoxylated (> 1 < 2,5 mol EO) | CAS: 58891-38-3  A: 500-234-8  NRN:  01-2119488639-16 | >1 - < 5 | Skin Irrit.2, H315  Eye Dam1, H318  Aquatic Chronic 3, H412 | EyeIrrit. 2A 5 - 10 %  Eye Dam 1: > 10 % |
| Lauril-glukozid | CAS: 110615-47-9  A: 600-975-9  NRN: Minds | >1 - < 3 | Skin Irrit.2, H315  Eye Dam1, H318 | Skin Irrit. 2; : C > 30 %  Eye Dam. 1; : 12 % < C ≤ 30 %  Eye Dam. 1; : C > 30 % |
| D-Glukopiróz, oligomer, C10-16 alkyl-glucosidox | CAS: 110-615-47-9  I:  NRN:  2119489418 | <1 | Skin Irrit.2, H315  Eye Dam1, H318 | Eye Dam 1>12%  Skin Irrit. >30% |
| Phenoxyethanol | CAS : 122-99-6  A: 204-589-7  Index: 603-098-00-9  REN:  01-2119488943-21 | >0,1 - <1 | Acute Tox.4, H302,  Eye Dam1, H318  Stott SE 3, H335 | ATE (oral)- 1394 mg/kg |

The full text of the H phrases and the classification categories is given in accordance with the procedure laid down in Article 16. section. An ingredient with an exposure limit value at the workplace, if any, shall be determined in accordance with Article 8. section.

***SECTION 4: FIRST AID MEASURES***

**4.1. Description of first aid measures**

**General measures:** In case of an accident, consult a doctor – take the safety data sheet with you. In case of persistent symptoms or suspicion, it is necessary to consult a doctor. It is forbidden to give anything orally to an unconscious person!

**Inhalation:** The affected person should be taken out to fresh air and observed.

**Contact with skin:** Take off contaminated clothing and shoes immediately. Skin areas contaminated with the product should be thoroughly washed with soap and water. In case of complaints, it is necessary to consult a doctor.

**In contact with eyes:** Contact lenses should be removed. Wash eyes immediately with open eyelids with running water for at least 15 minutes. Seek medical advice immediately.

**If swallowed**: The affected person should drink plenty of water and observe. In case of malaise, it is necessary to immediately consult a doctor. Take this safety data sheet and product label with you. It is forbidden to induce vomiting. It is allowed to induce vomiting only as directed by a doctor. Meanwhile, the head should be tilted forward so that vomit does not get back into the mouth and throat.

**4.2 The main symptoms and effects, acute and delayed**, are:

**Signs/symptoms of excessive exposure**

**Eye contact** The following symptoms may occur:

Pain or irritation, lacrimation, redness

**By inhalation** No specific data

**Skin contact** No specific data available

**In case of ingestion** No specific data

4.3 **Indication of immediate medical attention and special care required**:

Notes to the doctor Symptomatic treatment. Inhaling or swallowing large amounts

should be consulted by a toxicologist.

Special treatment Not known

***SECTION 5: FIRE PROTECTION MEASURES***

**5.1. Extinguishing agent**

**Appropriate extinguishing agent:** the vaccine must be selected according to the environment

**Unsuitable extinguishing agent:** a jet of water under high pressure, as it may spread the fire.

**5.2. Special hazards arising from the substance or mixture:**

No special fire or explosion hazard

**5.3 Proposal for firefighters**

**Special protective measures** If there is a fire, immediately isolate the scene, transporting the accident to the

**firefighters from** the scene of all persons. No activity

which involves personal risk or for which the worker has not received appropriate training.

**Special protective equipment** Firefighters must wear appropriate protective equipment and an automatic breathing apparatus (SCBA) independent of ambient air. The latter should completely cover the face and be used in pressurized mode. Fire-fighting clothing (including helmets, boots and gloves) providing adequate protection in the event of chemical accidents according to EN 469.

***SECTION 6: MEASURES IN CASE OF ACCIDENTAL EXPOSURE***

**6.1 Personal precautions, personal protective equipment and emergency procedures**

**Non-emergency care** Activities may not be carried out that are personal

**in the case of personnel** , involves risks or which the worker is engaged in

the worker has not received adequate training. Do not allow unnecessary and unprotective clothing persons to enter. Do not touch the spill or step into it. Avoid inhaling steam or fog. Provide adequate ventilation. If ventilation is inadequate, wear appropriate respiratory protection. Wear appropriate personal protective equipment.

**For emergency responders** If special clothing is required to handle spillage, please refer to the information on suitable and unsuitable materials indicated in Section 8. Also note the information provided in the "For non-emergency personnel" section.

**6.2. Environmental precautions** Avoid dispersal and spread of spillage,

and contact with soil, watercourses, drains and canals. Inform the competent authority,

if the product has caused environmental pollution (canals, watercourses, soil or air).

**6.3. Methods and materials for containment and decontamination:**

Small amounts released outdoors Stop leakage if you can do without danger. Remove containers from the spill area. Dilute with water and wipe if water soluble. Alternatively, or if it is not water soluble, soak it up with inert dry matter and place it in a suitable waste container. Have a licensed operator dispose of

Getting large amounts outdoors Stop leakage if you can do without danger. Remove containers from the spill area. Approach spillage against wind. Prevent the substance from getting into a sewer, watercourse, cellar or enclosed place. Wash spills into the wastewater treatment plant or proceed as follows. Prevent spillage from escaping and soak up with non-combustible absorbents such as sand, earth, vermiculite or diatomaceous earth and place in a receptacle for disposal in accordance with local regulations. Have a licensed contractor dispose of. A contaminated absorbent can pose the same danger as a spilled product.

**6.4. Reference to other sections:**

For safe handling, see 7. Section

Personal protective equipment see 8. Section

Disposal see 13. Section

***SECTION 7: HANDLING AND STORAGE***

**7.1. Precautions for safe handling**

**Protective measures** Put on appropriate personal protective equipment (see Chapter 8). Do not swallow. Avoid contact with eyes, skin or clothing. Avoid inhaling steam or fog. Store in the original container or approved alternative container made of compatible material, tightly closed when not in use. Empty containers may contain product residues and may be hazardous. Do not reuse the container.

**Hygienic measures** It is forbidden to eat, drink and smoke in places where handling, storage and processing of the material takes place. Before eating, drinking and smoking, workers should wash their hands and face. Before entering the area designated for eating, it is necessary to remove contaminated clothing and protective equipment. See section 8 for more information on hygiene measures.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** Store according to local regulations! Store in the original container, protected from direct sunlight, in a dry, cool and well-ventilated area, away from incompatible materials (see. Chapter 10), food and drink. Keep the container hermetically sealed until used. Containers that have already been opened must be carefully resealed and kept with the opening upwards in order to prevent leakage. Do not store in unlabelled containers. Appropriate containers must be used to avoid environmental pollution.

* 1. **Specific end use:**

The product may only be used in accordance with section 1.2

***SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION***

**8.1. Monitoring parameters**

**Permissible limit values in workplace airspace** (ITM Regulation 5/2020(II.6))

The product does not contain any ingredient with an exposure limit.

**DNEL values**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product/ingredient name | Exposure | Value | Scope | Effect |
|  |  |  |  |  |
| D-Glucopyranose, oligomer, C10-16 alkyl-glucosides | Long lasting skin  Prolonged inhalation  Long lasting skin  Prolonged oral use  Prolonged inhalation | 595000mg/kg  420 mg/m3  357000mg/kg  35,7 mg/kg  124 mg/m3 | Workers  Workers  Consumers  Consumers  Consumers | Systemic  Systemic  Systemic  Systemic  Systemic |
| Phenoxethanol | Long lasting skin  Prolonged inhalation  Prolonged inhalation  Long lasting skin  Prolonged oral use  Prolonged inhalation | 20.83 mg/kg bw/day  5.7 mg/m3  5.7 mg/m  10,42 mg/estsúlykg/nap  9.23 mg/estsúlykg/nap  2.41mg/m3  2.41mg/m3 | Workers  Workers  Workers  Consumers  Consumers  Consumers  Consumers | Systemic  Systemic  Local  Systemic  Systemic  Systemic  Local |

**PNEC values**

|  |  |  |
| --- | --- | --- |
| Product/ingredient name | Environment | Value |
| Sodium C12-C14-alkyl sulphate, ethoxylated (> 1 < 2,5 mol EO) | Freshwater  Seawater  Wastewater treatment plant  Freshwater sediment  Seawater sediment  Soil | 0,24 mg/l  0,14 mg/l  10000mg/l  5,45 mg/kg dry weight  0,545 mg/kg dry weight  0,946 mg/kg dry weight |
| D-Glucopyranose, oligomer, C10-16 alkyl-glucosides | Freshwater  Seawater  Intermittent emissions  Wastewater treatment plant  Freshwater sediment  Seawater sediment  Soil  Secondary poisoning | 0,176mg/l  0,018 mg/l  0,27 mg/l  560mg/l  1,516 mg/kg  0.16mg/kg  0,654 mg/kg  111.11 mg/kg |
| Phenoxyethanol | Fresh water  Seawater  Wastewater treatment plant  Freshwater sediment  Seawater sediment  Soil | 0,943mg/l  0.094 mg/  36mg/l  7.237 mg/kg  0,724 mg/kg  2,31 mg/kg |

**8.2. Exposure controls**

**Adequate technical control:** adequate ventilation is sufficient to prevent

exposure below limit value

**Personal precautions, such as personal protective equipment**

**Hygiene measures** Wash your hands, forearms and face thoroughly after handling chemicals, before eating, smoking, using the toilet, and finally after working hours.

Appropriate techniques must be used to remove clothing that may be contaminated. Wash soiled clothing before repeated use.

Ensure there are eyewash stations and safety showers near the workplace.

**Eye/face protection:** Appropriate safety glasses should be worn when, according to the risk assessment, exposure to squirts, vapour or dusts should be avoided. If contact is possible, the following protective equipment must be worn (unless the assessment indicates that a higher degree of protection is required): chemical-resistant safety glasses that seal well on the sides.

**Hand protection** Use protective gloves that protect against chemicals that comply with EN 374

Gloves should be changed regularly, but immediately in case of damage. Always make sure that the glove is not defective and has been stored properly. Performance may be reduced by physical/chemical damage and improper maintenance.

Note: The selection of gloves for a specific use and duration should take into account local conditions but should not be limited to: other chemicals to be handled, physical requirements (cut/puncture protection, dexterity, possible reaction of the body to the glove material and manufacturer's instructions). Observe the parameters specified by the glove manufacturer and make sure that the glove retains its protective properties during wearing.

**Personal** protective equipment for the protection of the body should be selected according to the task to be performed and the risks involved, and should be approved by a professional before handling the product.

**Other skin protection** It is necessary to select the appropriate footwear and any additional measures to protect the skin based on the task to be performed and the risk involved, and this must be approved by an expert before starting treatment with this product.

**Respiratory tract protection** If the risk assessment indicates that it is necessary, use a properly fitted air-filtered or fresh-air breathing apparatus complying with the relevant standard. The choice of the respirator shall be based on the known or expected exposure level, the hazard of the product and the safe operating limits of the respirator.

**Environmental exposure controls**

Emissions from ventilation or work equipment must be controlled to ensure compliance with environmental regulations. In some cases, smoke absorbers, filters or technical modifications to production equipment may be necessary to reduce emissions to acceptable levels.

***SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES***

**9.1. Information on basic physical and chemical properties**

**General information**

**External characteristics**:

Physical liquid

Colour: light brown

Odour: characteristic

Odour threshold not defined

pH (20°C-on) 7,5 - 8,5

Melting point/freezing point not determined

initial boiling and boiling range°C: not specified

Flashpoint: aqueous preparation not applicable

Evaporation rate data not available

Flammability (solid, gas) not applicable

Upper/lower flammability or unspecified

explosion ranges of the product are non-explosive

Vapour pressure data not available

Vapour density data not available

Density (20°C) ~1,05 g/cm3

Solubility soluble in water

partition coefficient n-octanol/water not determined

Auto-ignition temperature the product is not self-igniting

Decomposition temperature not specified

Viscosity

Dynamic unspecified

Kinematic (20°C) unspecified

Particle characteristics

Average particle size not applicable

**9.2. Other information**: no further relevant information is available

***SECTION 10 STABILITY AND REACTIVITY***

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under the conditions described in section 7

**10.3. Possibility of hazardous reactions:** unknown

**10.4. Conditions to avoid:** Heating (e.g. direct sunlight) should be avoided

**10.5. Incompatible substances:** Strong acids, strong bases, strong oxidants and strong

reducing agents

**10.6. Hazardous decomposition products:** The product does not decompose when used in accordance with section 1

***SECTION 11: TOXICOLOGICAL INFORMATION***

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

**Acute toxicity:**

Product Based on the available data, the classification criteria are not

Met

LD50 values influencing classification:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component name | Result | Species | Dose | Exposure |
| Sodium C12-C14-alkyl sulphate, ethoxylated (> 1 < 2,5 mol EO) | LD50 dermal  LD 50 oral | rabbit  rat | >2000mg/kg  >5000mg/kg | -  - |
| Lauryl-Glucoside | LD50 oral | rat | >5000mg/kg | - |
| Phenoxyethanol | LD50 dermal  LD50 oral  LC50 inhalation | rabbit  rat (female)  Rat (male and female) | >2214mg/kg  1830mg/kg  >1000mg/l | .  .  14 days |

**Skin corrosion/irritation**:

Product Based on the available data, the classification

criteria not met

**Serious eye damage/irritation**:

Product Causes severe eye irritation

**Respiratory or skin sensitisation**:

Product Based on the available data, the classification

criteria not met

**Germ cell mutagenicity**

Product Based on the available data, the classification

criteria not met

**Carcinogenic effect**

ProductBased on the available data, the classification

criteria not met

**Reproductive toxicity**

ProductBased on the available data, the classification

criteria not met

**Specific target organ toxicity after single exposure (STOTSE)**

ProductBased on the available data, the classification

criteria not met

**Specific target organ toxicity after prolonged exposure (STOTRE)**

ProductBased on the available data, the classification

criteria not met

**Aspiration hazard**

ProductBased on the available data, the classification

criteria not met

**Information on likely routes of exposure**

**In contact with eyes** Causes severe eye irritation

Inhalation No significant effects or critical hazards are known

**In contact with skin** No significant effects or critical hazards are known

**If ingested** Significant effects or critical hazards are not known

**Symptoms related to physical, chemical and toxicological characteristics**

**Eye contact** The following symptoms may occur:

Pain or irritation, tearing, redness

**By inhalation** No specific data

**Skin contact** No specific data available

**In case of ingestion** No specific data

**11.2 Information on other hazards**

**11.2.1. Endocrine disrupting properties** No data available

**11.2.2**.**Other information** data not available

**Reproductive toxicity**

ProductBased on the available data, the classification

criteria not met

**Specific target organ toxicity after single exposure (STOTSE)**

ProductBased on the available data, the classification

criteria not met

**Specific target organ toxicity after prolonged exposure (STOTRE)**

ProductBased on the available data, the classification

criteria not met

**Aspiration hazard**

ProductBased on the available data, the classification

criteria not met

**Information on likely routes of exposure**

**In contact with eyes** Causes severe eye irritation

Inhalation No significant effects or critical hazards are known

**In contact with skin** No significant effects or critical hazards are known

**If ingested** Significant effects or critical hazards are not known

**Symptoms related to physical, chemical and toxicological characteristics**

**Eye contact** The following symptoms may occur:

Pain or irritation, tearing, redness

**By inhalation** No specific data

**Skin contact** No specific data available

**In case of ingestion** No specific data

**11.2 Information on other hazards**

**11.2.1. Endocrine disrupting properties** No data available

**11.2.2**. **Other information** data not available

***SECTION 13: DISPOSAL CONSIDERATIONS***

**13.1. Waste treatment methods**

**Unused mixture:** Considered hazardous waste due to the classification of the product

**Recommended list of waste codes:**

HAK 20 01 29\* Detergents containing dangerous substances

**Empty packaging:** packaging can be recycled when completely empty

**Contaminated packaging:** waste treatment is the same as for product residue

**Recommended detergent:** Water, possibly with the addition of detergent

***SECTION 14: TRANSPORT INFORMATION***

14.1 UN number or identification number

ADR, IMDG, IATA free

14.2. UN proper shipping name

ADR, MDG, IATA free

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class free

14.4 Packing Group

ADR, IMDG, IATA free

14.5 Free of environmental hazards

14.6 Special precautions concerning the user should not be applied

14.7 Maritime transport in bulk under IMO rules shall not apply

***SECTION 15: REGULATORY INFORMATION***

**15.1. Safety, health and environmental regulations/legislation specific to the substance or mixture**

**REACH Regulation (EC) No 1907/2006:**

**Annex XIV The list of substances subject to authorisation** does not include listed substances

**Substances of very high concern (SVHC)** do not contain

**Annex XVII -Certain dangerous substances** not listed in the Annex

**manufacture of preparations and articles, material**

**placing on the market and use**

**Restrictions related to**

**Other EU regulations:**

**European databases,** all components included in the

list or exception

**Regulation (EC) No 1005/2009 on substances that deplete the ozone layer** is not included

**Regulation (EU) No 649/2012 on the import and export of dangerous substances not** **included**

**­**The product falls within the scope of Regulation (EC) No 648/2004 on detergents.

**National legislation**

1. Act XXV of 2000 on Chemical Safety
2. 44/2000 of 27 December 2000 EüM Regulation on the detailed rules of certain procedures and activities related to dangerous substances and dangerous preparations
3. 5/2020(II.6) ITM Regulation on the protection of the health and safety of workers exposed to chemical pathogens
4. 2012. Act CLXXXV on Waste
5. Government Decree 219/2011(X.30) against major accidents involving dangerous substances

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

***SECTION 16: OTHER INFORMATION***

**Abbreviations and acronyms :** ADR =International carriage of dangerous goods by road

ATE = acute toxicity estimation

CLP=Regulation of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures [Regulation (EC) No 1272/2008]

DNEL = derived no-effect level

EC50 = Median lethal concentration

EUH statement = CLP-specific hazard statement

IATA Dangerous Goods Air Transport

IMDG International Maritime Transport of Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose

PBT = Persistent and toxic

PNEC = predicted no-effect concentration

RRN = REACH registration number

**The most important bibliographic references:**

**and data sources:** data not available

**Classification** according to Regulation (EC) No 1272/2008 (CLP/GHS):

-

Classification Justification

- calculation method

H phrases in the safety data sheet

H302 Harmful if swallowed

H315 Irritant to the skin

H318 Causes serious eye damage

H319 Causes severe eye irritation

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long-lasting effects

Full text of classification categories

Acute Tox. 4, H302 Acute toxicity (oral) – category 4

Skin Irrit.2, H315 Skin corrosion/irritation — Category 2

Eye Dam. 1, H318 Serious eye damage/eye irritation — category 1

Eye Irrit.2, H319 Serious eye damage/eye irritation — category 2

STOT SE 3, H335 Specific target organ toxicity, single exposure (inhalation) – 3

category

Aquatic Chronic 3, H412 Category 3 Aquatic chronic toxicity

Other information: The information provided in the safety data sheet is based on current knowledge and the state of supply of the product. Their purpose is to evaluate the product in accordance with safety standards and not to provide the characteristics that correspond to the product.