



SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2013-04-23

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

1.1. Product identifier

Trade name **SHOWERCLEAN**

Supplier's product number 134242

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

Identified uses Detergent for shower and tiling

1.3. Details of the supplier of the safety data sheet

Company Herdins Färgverk
Box 711
SE-79129 FALUN
Sweden

Contact person Dag Fredrixon

Telephone +46 23-33060

E-Mail d.fredrixon@herdins.se

1.4. Emergency telephone number

In case of emergency contact toxicological information, emergency tel 112 (within Europe) or 911 (for USA and Canada).

For other countries, use the built-in emergency number in your cell phone

For non-emergency poison information, see <http://www.who.int/ipcs/poisons/centre/directory/euro/en/>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with 1272/2008

See section 16.

Classification in accordance with 1999/45/EG

Irritant.

2.2. Label elements

Hazard symbol



Irritant

R-phrases

R36 Irritating to eyes

S-phrases

S2 Keep out of the reach of children

S25 Avoid contact with eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S46 If swallowed, seek medical advice immediately and show this container or label

2.2. Label elements(1272/2008)

See section 16.

2.3. Other hazards

Not relevant.

SECTION 3: Composition/information on ingredients

This product is composed of a homogeneous aqueous solution.

3.2. Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

CITRIC ACID MONOHYDRATE		
CAS No 5949-29-1	Eye Irrit 2; H319	5 - 10%
EC No 201-069-1	Xi; R36	
α -ISOTRIDECYL ω -HYDROXY POLY(EO)		
CAS No 9043-30-5	Acute Tox <i>4oral</i> , Eye Dam 1; H302, H318	1 - 5%
EC No 500-027-2	Xn; R22 R41	
BENZYL DIMETHYL TETRADECYLAMMONIUM CHLORIDE		
CAS No 139-08-2	Acute Tox <i>4oral</i> , Skin Corr 1B; H302, H314	0,1 - 0,5%
EC No 205-352-0	C; R36/37/38	
DODECYL (ETHYLBENZYL) DIMETHYL AMMONIUM CHLORIDE		
CAS No 27479-28-3	Skin Corr 1B, Acute Tox <i>4oral</i> ; H314, H302	0,1 - 0,5%
EC No 248-486-5	C; R22 R34	
PERFUME		
	Skin Irrit 2, Aquatic Chronic 3; H315, H412	0,1 - 1%
	Xi; R38 R52/53	

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b

Also contains component(s) not necessary to label.

(EC) No 648/2004:

Non-ionic surfactants < 5%

Perfume.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms persist, call doctor/physician.

Upon contact with the eyes

Rinse the eye for several minutes with lukewarm water. If irritation remains call a doctor/physician (eye specialist) for advice on further treatment.

Upon skin contact

Wash the skin with soap and water.

Upon ingestion

Immediately drink two glasses of water, milk or cream.

4.2. Most important symptoms and effects, both acute and delayed

Irritates the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Extinguish with materials intended for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

The product is not hazardous in the flammable sense.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable

6.2. Environmental precautions

Avoid discharge into sewers.

6.3. Methods and material for containment and cleaning up

Minor spillage should be wiped away or flushed away with water. Large quantities should be collected for incineration in accordance with the local regulations.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

6.4. Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling

When working with dangerous substances a fume cupboard ought to be used, or else utilise a space which is well ventilated.

Keep out of reach of children and pets.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Do not store above normal room temperature.

Handle in premises which have modern ventilation standards.

Emergency showers and eye-rinsing facilities must be available at the workplace.

Store only in the original package.

7.3. Specific end uses

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values, United Kingdom

All ingredients (cf. Section 3) lack occupational exposure limit values.

8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

Eye protection should be worn if there is any danger of direct exposure or splashing.

For limitation of environmental exposure, see Section 12.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: greenish blue
b) Odour	Weak smell like perfume
c) Odour threshold	Not applicable
d) pH	1-2
e) Melting point/freezing point	0 °C
f) Initial boiling point and boiling range	100 °C at atmospheric pressure (101325 Pa)
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable

k) Vapour pressure	Not applicable
l) Vapour density	Not applicable
m) Relative density	1,04 kg/L
n) Solubility	Solubility in water Unlimited solubility
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	Not applicable
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Not indicated

10.4. Conditions to avoid

Not indicated

10.5. Incompatible materials

Toxic chlorine gas can develop on contact with chlorine-based products.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General or unspecific toxicity

Not indicated

Acute effects

Not classified as an acutely toxic substance.

Corrosive and irritating effects

Irritant on eyes, skin, mucous membranes and the upper respiratory tract.

Effect on human microflora

Harmful effects on human micro-flora can not be ruled out.

Relevant toxicological properties

CITRIC ACID MONOHYDRATE

LD50 Orally rat = 3000 mg/kg

-ALFA-ISOTRIDECYL -OMEGA--HYDROXY POLY(EO)

LD50 Orally rat > 2000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

-ALFA-ISOTRIDECYL -OMEGA--HYDROXY POLY(EO)

LC50 Freshwater water flea (Daphnia magna) 48h > 1 mg/L

The product is, or contains, a substance which has been classified as an irritant. Harmful effects on animals, plants and micro-organisms in the local environment cannot be ruled out.

12.2. Persistence and degradability

The product degrades easily in the natural environment.

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004/EC.

12.3. Bioaccumulative potential

This product or its ingredients do probably not accumulate in nature.

12.4. Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6. Other adverse effects

Data lacking.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste handling for the product

Cf. also national waste regulations.

Classification according to 2006/12

Recommended LoW-code: 07 06 01 Aqueous washing liquids and mother liquors.

Recycling of the product

This product is not normally recycled. Empty packaging should be disposed of at a recycling centre where practically possible. The manufacturer is affiliated to REPA.

SECTION 14: Transport information

This product is only supposed to be transported by road or railway and just the transport regulations ADR/RID thus apply. If other means of transport are to be used, contact the publisher of this safety data sheet.

14.1. UN number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Not applicable.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

This is the first version.

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

<i>No phys haz</i>	Non-assigned physical hazard
Eye Irrit 2	Irritates eyes (Category 2)

<i>No environmental hazard</i>	Not classified as being environmentally hazardous
Acute Tox 4oral	Acute toxicity (Category 4 oral)
Eye Dam 1	Causes irreversible eye damage (Category 1)
Skin Corr 1B	Corrosive (Category 1B)
Skin Irrit 2	Causes irritation (Category 2)
Aquatic Chronic 3	Harmful to aquatic life with long-lasting effects (Category Cron 3)

Comprehensive definition of the hazards mentioned in Section 2

Eye Irrit 2

If, when applied to the eye of an animal, a substance produces at least in 2 of 3 tested animals, a positive response of:

- corneal opacity ≥ 1 and/or
- iritis ≥ 1 , and/or
- conjunctival redness ≥ 2 and/or
- conjunctival oedema (chemosis) ≥ 2

calculated as the mean scores following grading at 24, 48 and 72 hours after installation of the test material, and which fully reverses within an observation period of 21 days

Explanations of the abbreviations in Section 14

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

RID Regulations concerning the International Transport of Dangerous Goods by Rail

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2013-06-07.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

- | | |
|------------|--|
| 453/2010 | COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) |
| 1272/2008 | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 |
| 1999/45/EG | DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations |
| 89/391 | COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work |
| 98/24 | COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) |
| 2006/12 | DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on waste |
| 1907/2006 | REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I |

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

16e. List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

Full text for risk phrases mentioned in section 3

R36	Irritating to eyes
R22	Harmful if swallowed
R41	Risk of serious damage to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R34	Causes burns
R38	Irritating to skin
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full texts for hazard statements mentioned in section 3

H319	Causes serious eye irritation
H302	Harmful if swallowed
H318	Causes serious eye damage
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H412	Harmful to aquatic life with long lasting effects

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Classification in accordance with 1272/2008

Irritates eyes (Category 2)

Label information in accordance with 1272/2008

Hazard pictograms



Signal words	Warning
Hazard statements	
H319	Causes serious eye irritation
Precautionary statements	
P102	Keep out of reach of children
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313	If eye irritation persists: Get medical advice/attention

Editorial information

This safety data sheet has been generated by the program KemRisk®, KemRisk Sweden AB, Teknikringen 10, SE-583 30 Linköping, Sweden.