

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 2012-10-05

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

1.1. Product identifier

Trade name **Environ HP, Encapsulate Cleaner**
Supplier's product number HOSEHP4G

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Detergent, textile floor

1.3. Details of the supplier of the safety data sheet

Company	HOS GmbH Hruby Orbital Systems Kleiststraße 7 10787 Berlin
Contact person	Magdalena Riedel
Telephone	+49 (0)30/95604535
Cell phone	+49 (0)162/9211503
E-Mail	magda@hos-usa.com

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

C.f. 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

S24/25 Avoid contact with skin and eyes

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

S37 Wear suitable gloves

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

2.2. Label elements(1272/2008)

C.f. 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, c.f. Section 16d.

Acrylic Copolymer Emulsion		
	-	1 - 5%
	Xi; R36/38	
D-GLUCOPYRANOSE, OLIGOMERS, DECYL OCTYL GLYCOSIDES		
CAS No 68515-73-1	Eye Dam 1; H318	< 2%
EC No 500-220-1	Xi; R41	
D-GLUCOPYRANOSIDE C10-16 ALKYL OLIGOMERIC		
CAS No 110615-47-9	Eye Dam 1, Skin Irrit 2; H318, H315	< 2%
EC No 600-975-8	Xi; R38 R41	
TETRASODIUM ETHYLENEDIAMINETETRAACETATE MONOHYDRATE		
CAS No 64-02-8	Eye Irrit 2, Acute Tox <i>4oral</i> ; H319, H302	< 1%
EC No 200-573-9	Xn; R22 R36	
Index No 607-428-00-2		

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, c.f. Section 16b. Also contains component(s) not necessary to label.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Generally

Immediately call a POISON CENTER or doctor/physician.

Upon breathing in

Call a doctor/physician or Poison Information Centre (Emergency tel 112), even if no symptoms are noticeable.

Upon contact with the eyes

Immediately rinse with lukewarm water 15 - 20 minutes with eyes wide open; Transport the injured person to the hospital immediately.

Remove solid particles.

Upon skin contact

Wash with large quantities of water (emergency shower) and seek medical assistance.

Remove contaminated clothes.

Upon ingestion

First rinse your mouth carefully and SPIT OUT the water. Then drink at least half a litre of water, if possible with active carbon, and then induce vomiting. Contact Poison Information Centre (emergency number 112).

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

Information on symptoms are ambiguous or missing for this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Recommended extinguishing agents

All normal extinguishing agents may be used.

Unsuitable extinguishing agents

Among common extinguishing agents there are none that are overtly unsuitable.

5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

5.3. Advice for fire-fighters

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

In case of fire use a respirator mask.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Chemical protection suits should be worn for all salvage and decontamination work.

Avoid discharge into sewers.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

6.2. Environmental precautions

Avoid discharge into soil, water or air.

Avoid discharge into sewers.

6.3. Methods and material for containment and cleaning up

To be collected with caution and transported to a waste disposal facility.

Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

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

6.4. Reference to other sections

For choice of gloves, c.f. Section 8.

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.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is stored.

7.2. Conditions for safe storage, including any incompatibilities

Do not store above normal room temperature.

Handle in premises which have modern ventilation standards.

Store in a well-ventilated area, not above eye-level.

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

Store only in the original package.

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

Not indicated

Use protective glasses, safety goggles, or a visor.

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

Gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here are recommended.



Choose a mechanical wear strength in line with the nature of the work in accordance to this pictogram with four digits that indicate resistance against abrasion, cutting effects, tear and puncture, where 1 is the lowest and 4 or 5 is the best.

A protective mask, with a B filter (grey) or an IIb (P2) dust filter, may be required.

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: pale blue |
| b) Odour | Mildly like perfume |
| d) pH | 5-8 |

f) Initial boiling point and boiling range	100 °C at atmospheric pressure (101325 Pa)
g) Flash point	Not applicable
n) Solubility	Solubility in water Unlimited solubility
s) Explosive properties	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

The substance is stable.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

General or unspecific toxicity

Not indicated

Toxicokinetics, metabolism and distribution

acute effects

Not classified as an acutely toxic substance.

Repeated dose toxicity

Prolonged exposure to the substance is dangerous.

Sensibilisation

Eczema (atopical or unidentified) may occur.

Corrosive and irritating effects

The substance is a powerful irritant to skin, eyes and mucous membranes.

Other toxicologic information.

Synergism and antagonism

Enhances the risk of allergy for other substances.

Effect on human microflora

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

Relevant toxicological properties

TETRASODIUM ETHYLENEDIAMINETETRAACETATE MONOHYDRATE

LD50 Orally rat > 630 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

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

Not indicated

12.6. Other adverse effects

Not indicated

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling for the product

General guidelines for waste handling

Cf. also national waste regulations.

Recycling of the product

This product is not usually recycled.

Transportation of waste

Waste class J(1) - Substances classified as harmful or irritating.

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.

Not indicated

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

Not applicable

14.8 Other transport information

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

Eye Dam 1	Causes irreversible eye damage (Category 1)
Skin Irrit 2	Causes irritation (Category 2)
<i>No phys haz</i>	Non-assigned physical hazard
<i>No environmental hazard</i>	Not classified as being environmentally hazardous
Eye Irrit 2	Irritates eyes (Category 2)
Acute Tox 4oral	Acute toxicity (Category 4 oral)

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 2012-10-19.

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
- 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

- R36/38 Irritating to eyes and skin
R41 Risk of serious damage to eyes
R38 Irritating to skin
R22 Harmful if swallowed
R36 Irritating to eyes

Full texts for hazard statements mentioned in section 3

- H318 Causes serious eye damage
H315 Causes skin irritation
H319 Causes serious eye irritation
H302 Harmful if swallowed

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	
P264	Wash hands thoroughly after handling
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.