

## Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

### Hydralay Surfactant

#### 1. Identification of the substance/mixture and company

Trade name: Hydralay Surfactant  
Mixture of alkyl glucoside with fatty acid glyceryl ester  
INCI Name: Coco glucoside, Glyceryl oleate  
Utilization: Raw material for cosmetics, personal care  
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, [www.ellemental.com](http://www.ellemental.com)  
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

According to UN GHS criteria

Eye Dam./Irrit. 1

Aquatic Acute 3

For the classifications not written out in full in this section the full text can be found in section 16.

##### 2.2 Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word: Danger

Hazard Statement:

H318 Causes serious eye damage.

H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear eye and face protection.

P273 Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or physician.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

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Hazard determining component(s) for labelling: D-Glucopyranose, oligomers, decyl octyl glycosides

Other hazards

#### 2.3 Other hazards

According to UN GHS criteria:

No specific dangers known, if the regulations/notes for storage and handling are considered.

### 3. Declaration of ingredients

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#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature:

Aqueous solution based on: Alkylpolyglucoside, Glycerides, C16-18 and C18-unsatd. mono- and di-, Citric acid

Hazardous ingredients (GHS):

According to UN GHS criteria:

D-Glucopyranose, oligomers, decyl octyl glycosides

Content (W/W):  $\geq 10\%$  -  $< 20\%$

CAS Number: 68515-73-1

EC-Number: 500-220-1

Eye Dam./Irrit. 1 Aquatic Acute 3 H318, H402

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

Content (W/W):  $\geq 10\%$  -  $< 20\%$

CAS Number: 110615-47-9

Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Aquatic Acute 2 H318, H315, H401

Specific concentration limit: Eye Dam./Irrit. 1:  $> 12\%$  Skin Corr./Irrit. 2:  $> 30\%$

Citric acid

Content (W/W):  $\geq 1\%$  -  $< 5\%$

CAS Number: 77-92-9

EC-Number: 201-069-1

REACH registration number: 01-2119457026-42

Acute Tox. 5 (oral) Eye Dam./Irrit. 2A STOT SE 3 (irr. to respiratory syst.) H319, H303, H335

For the classifications not written out in full in this section the full text can be found in section 16.

### 4. First aid measures

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#### 4.1 Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled: not relevant.

On skin contact: After contact with skin, wash immediately with plenty of water.

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On contact with eyes: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

On ingestion: Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.

Hazards: No hazard is expected under intended use and appropriate handling.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire fighting measures

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#### 5.1 Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam

#### 5.2 Special hazards arising from the substance or mixture

Harmful vapors. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

#### 5.3 Advice for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### 6. Accidental release measures

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#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

#### 6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater.

#### 6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

#### 6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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#### 7. Handling and storage

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##### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

##### 7.2 Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

##### 7.3 Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Above temperature limit the physical condition of the product will be change. Below temperature limit the product properties will change. The property change is reversible by stirring and heating. Please refer to the product specific data sheet for further information. Avoid all sources of ignition: heat, sparks, open flame.

##### 7.4 Storage stability:

Storage temperature: 10 - 30 °C

Protect against moisture.

Protect from temperatures below: 10 °C

Below the temperature limit, the product is no longer pumpable.

Protect from temperatures above: 30 °C

Properties of the product change irreversibly on exceeding the limit temperature.

##### 7.5 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

#### 8. Exposure controls / personal protection

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##### 8.1 Control parameters

Components with occupational exposure limits: No substance specific occupational exposure limits known.

##### 8.2 Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): nitrile rubber (NBR) - 0.2 mm coating thickness

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

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Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### 8.3 General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

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#### 9.1 Information on basic physical and chemical properties

Form: paste like viscous liquid  
Color: yellow  
Odor: slight odor  
Odor threshold: not applicable  
pH value (20 °C): 3,0 - 4,0  
softening temperature: 40 °C  
boiling temperature: > 100 °C  
Flash point: > 101 °C  
Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.  
Flammability: not flammable  
Flammability of Aerosol Products: not applicable, the product does not form flammable aerosols.  
Lower explosion limit: For liquids not relevant for classification and labeling.  
Upper explosion limit: For liquids not relevant for classification and labeling.  
Ignition temperature: not determined  
Vapor pressure: not determined  
Density (20 °C): 1,06 - 1,10 g/cm<sup>3</sup>  
Relative vapor density (air): not applicable  
Solubility in water: soluble. Solubility (qualitative) solvent(s): distilled water soluble  
Partitioning coefficient n-octanol/water (log K<sub>ow</sub>): not determined  
Self ignition: not applicable  
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.  
Viscosity, dynamic (20 °C): 2.500 - 6.000 mPa\*s  
Viscosity, kinematic: not determined  
Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating

#### 9.2 Other information

If necessary, information on other physical and chemical parameters is indicated in this section.  
No further information available.

### 10. Stability and reactivity

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#### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

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#### 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### 10.3 Possibility of hazardous reactions

None if used for intended purpose.

#### 10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

#### 10.5 Incompatible materials

Substances to avoid:

No substances known that should be avoided.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

### 11. Toxicological information

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#### 11.1 Information on toxicological effects

##### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 (oral): > 2.000 mg/kg

##### Irritation

Assessment of irritating effects:

May cause severe damage to the eyes.

Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

##### Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

##### Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

##### Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

##### Developmental toxicity

Assessment of teratogenicity:

No data was available concerning toxicity to development.

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Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on available data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Aspiration hazard

No aspiration hazard expected.

#### 11.2 Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

## 12. Ecological information

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#### 12.1 Toxicity

Assessment of aquatic toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish: LC50 > 10 - 100 mg/l

Microorganisms/Effect on activated sludge: EC0 > 100 mg/l

#### 12.2 Persistence and degradability

Assessment biodegradation and elimination (H2O): Readily biodegradable (according to OECD criteria).

Elimination information: (Annex III, part A) The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

#### 12.3 Bioaccumulative potential

Assessment bioaccumulation potential: No data available.

#### 12.4 Mobility in soil

Assessment transport between environmental compartments:

Volatility: not applicable

#### 12.4 Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.5 Other adverse effects

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

#### 12.6 Additional information

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Other ecotoxicological advice: Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

#### 13. Disposal considerations

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##### 13.1 Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

#### 14. Transport information

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##### Land transport

###### ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

###### RID

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user None known

##### Inland waterway transport

###### ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

##### Sea transport

###### IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable



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Environmental hazards: Not applicable  
Special precautions for user: None known  
Air transport  
IATA/ICAO  
Not classified as a dangerous good under transport regulations  
UN number or ID number Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user None known  
Maritime transport in bulk according to IMO instruments  
Maritime transport in bulk is not intended.

#### 15. Regulatory information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### 16. Additional information

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Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.

Serious eye damage/eye irritation

Aquatic Acute

Hazardous to the aquatic environment - acute

Skin Corr./Irrit.

Skin corrosion/irritation

Acute Tox.

Acute toxicity

STOT SE

Specific target organ toxicity — single exposure

H318 Causes serious eye damage.

H402 Harmful to aquatic life.

H315 Causes skin irritation.

H401 Toxic to aquatic life.

H319 Causes serious eye irritation.

H303 May be harmful if swallowed.

H335 May cause respiratory irritation.

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#### 16.2. Abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO – International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.