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## Safety Data Sheet ACTIVAE DGR-ECO



Safety Data Sheet dated 29/10/2020, version 2

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

#### 1.1. Product identifier

Mixture identification:

Trade name:

**ACTIVAE DGR-ECO**

Trade code:

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

Recommended use:

F: Mixtures for further formulation

PC-TEC-22: Surfactants mixtures for industrial applications

Uses advised against:

All applications not listed use recommended.

#### 1.3. Details of the supplier of the safety data sheet

Company:

**Surface Activae SA** - Via S.Gottardo 7/b - 6877 Coldrerio – Switzerland

T. +41 (0)91 6300202

From 8.30 to 18.00

Competent person responsible for the safety data sheet:

info@surfaceactivae.com

#### 1.4. Emergency telephone number

T. +41 (0) 91 6300202

M. +39 348 4101993

### SECTION 2: Hazards identification

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

EC regulation criteria 1272/2008 (CLP)



Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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 doctor.

Special Provisions:

None

Contains

Ethoxylated fatty alcohol

Special provisions according to Annex XVII of REACH and subsequent amendments:

None



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### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards


## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification	Additional info
>= 50% - < 55%	Ethoxylated fatty alcohol	CAS: 68439-46-3	 3.3/1 Eye Dam. 1 H318	ALTERNATIVE CAS: 78330-20-8; 61827-42-7; Free from EINECS because it is polymer.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Vomiting

Headache

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.



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Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

For containment:

Aspirate the spilled product into a suitable container. Absorb the remainder with inert absorbent material.

For cleaning up:

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Store away from frost and sunlight (-10° C / +30 ° C)

Shelf-life:

Max 2 years from production batch date, in sealed and healthy package, stored in a dry place.

Handling:

Product should be homogenized before use, especially in the following cases:

- whenever partial volumes are taken from the drum

- when product is stored at low temperatures (less than 6°C)

- when product rests in stock for a long period of time (more than six months).

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular



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### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
No occupational exposure limit available  
DNEL Exposure Limit Values  
N.A.  
PNEC Exposure Limit Values  
N.A.
- 8.2. Exposure controls  
Eye protection:  
Eye glasses with side protection.  
Protection for skin:  
Overall.  
Safety shoes.  
Lab coat.  
Protection for hands:  
Suitable gloves type:  
Chemical resistant gloves (EN 374)  
Suitable material:  
Butyl caoutchouc (butyl rubber).  
Protection index: Class 6. Breakthrough time:> 480 min. Glove thickness: 0.5 mm.  
Respiratory protection:  
In the case in which the product, during the application, develops fog and / or aerosol:  
Filtering device (DIN EN 147).  
Thermal Hazards:  
None.  
Environmental exposure controls:  
None. Use good hygiene practices and workplace safety.  
Appropriate engineering controls:  
Ensure adequate ventilation, especially in closed areas.  
Minimize exposure concentrations in the workplace.

### SECTION 9: Physical and chemical properties

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

Properties	Value
Appearance and colour:	Clear liquid pale yellow
Odour:	characteristic
Odour threshold:	N.A.
pH:	approx. 6,5 (100%)
Melting point / freezing point:	-10°C
Initial boiling point and boiling range:	100°C
Flash point:	>100 ° C
Evaporation rate:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density:	N.A.
Relative density:	approx. 1,00 g/mL
Solubility in water:	completely soluble
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.



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Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
Viscosity:	N.A.
Explosive properties:	No
Oxidizing properties:	No

### 9.2. Other information

Properties	Value
Miscibility:	N.A.
Fat Solubility:	Soluble in ethanol
Conductivity:	Not Relevant
Substance Groups relevant properties	N.A.

## SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - None
- 10.4. Conditions to avoid
  - Stable under normal conditions.
- 10.5. Incompatible materials
  - None in particular.
- 10.6. Hazardous decomposition products
  - None.

## SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
  - Toxicological information of the product:
    - ACTIVAE DGR-ECO
  - a) acute toxicity
    - Not classified
    - Based on available data, the classification criteria are not met
  - b) skin corrosion/irritation
    - Not classified
    - Based on available data, the classification criteria are not met
  - c) serious eye damage/irritation
    - The product is classified: Eye Dam. 1 H318
  - d) respiratory or skin sensitisation
    - Not classified
    - Based on available data, the classification criteria are not met
  - e) germ cell mutagenicity
    - Not classified
    - Based on available data, the classification criteria are not met
  - f) carcinogenicity
    - Not classified
    - Based on available data, the classification criteria are not met
  - g) reproductive toxicity
    - Not classified
    - Based on available data, the classification criteria are not met



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- h) STOT-single exposure
    - Not classified
    - Based on available data, the classification criteria are not met
  - i) STOT-repeated exposure
    - Not classified
    - Based on available data, the classification criteria are not met
  - j) aspiration hazard
    - Not classified
    - Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
- Ethoxylated fatty alcohol - CAS: 68439-46-3
    - a) acute toxicity:
      - Test: LD50 - Route: Oral - Species: Rat > 2000 mg/l - Source: CESIO
    - b) skin corrosion/irritation:
      - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Duration: 4h - Source: CESIO
    - c) serious eye damage/irritation:
      - Test: Eye Irritant - Route: Eyes - Species: Rabbit Positive - Source: CESIO
    - d) respiratory or skin sensitisation:
      - Test: Skin Sensitization - Route: Skin Negative - Source: CESIO

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### SECTION 12: Ecological information

- 12.1. Toxicity
  - Adopt good working practices, so that the product is not released into the environment.
- ACTIVAE DGR-ECO
  - Not classified for environmental hazards
  - Based on available data, the classification criteria are not met
- Ethoxylated fatty alcohol - CAS: 68439-46-3
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: CESIO
    - Endpoint: LC50 - Species: Carassius Auratus > 100 mg/l - Duration h: 96 - Notes: CESIO
- 12.2. Persistence and degradability
  - Ethoxylated fatty alcohol - CAS: 68439-46-3
    - Biodegradability: Not persistent and Biodegradable - Test: Method OECD 301 /B - Duration h: 28d Outcome: > 70%
    - Biodegradability: AOX: the product does not contain organohalogenated compounds.
    - Biodegradability: Heavy metals: the product does not contain heavy metals in concentrations relevant for waste water.
    - Biodegradability: Readily biodegradable
- 12.3. Bioaccumulative potential
  - N.A.
- 12.4. Mobility in soil
  - N.A.
- 12.5. Results of PBT and vPvB assessment
  - vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
  - None

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### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
  - Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.



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### SECTION 14: Transport information

- 14.1. UN number  
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name  
N.A.
- 14.3. Transport hazard class(es)  
N.A.
- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

The product is transported in conditions that comply with exemption criteria for ADR transport.

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### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) 2015/830
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)
  - Regulation (EU) n. 2018/669 (ATP 11 CLP)
  - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
  - Restrictions related to the product:
    - Restriction 3
  - Restrictions related to the substances contained:
    - No restriction.

All the components of this blend are listed on TSCA LIST.



**WARNING:** This product can expose you to Ethylene Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to 1,4-Dioxane which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)





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Volatile Organic compounds - VOCs = 0.00 %  
Volatile Organic compounds - VOCs = 0.00 g/l  
Volatile CMR substances = 0.00 %  
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %  
Organic Carbon - C = 0.00  
Where applicable, refer to the following regulatory provisions :  
Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):  
Seveso III category according to Annex 1, part 1  
None

15.2. Chemical safety assessment  
No Chemical Safety Assessment has been carried out for the mixture.

### SECTION 16: Other information

Full text of phrases referred to in Section 3:  
H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.  
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.

CESIO - Classification and Labelling of Surfactants as "Dangerous for the Environment" (Ed. 12/2013).

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).





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CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.
N.A.:	Not available