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Safety Data Sheet ACTIVAE DGR



Safety Data Sheet dated 17/9/2021, version 7

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

1.1. Product identifier

Mixture identification:

Trade name:

ACTIVAE DGR

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

U.S. Contact:

Essential Ingredients

2408 Tech Center Pkwy, Suite 200

Lawrenceville, GA US 30043

773-831-9010

European Contact:

Surface Activae SA

Via S.Gottardo 7/b - 6877 Coldrerio – Switzerland

T. +41 (0)91 6300202 (From 8.30 to 18.00 GMT+1)

Competent person responsible for the safety data sheet: info@surfaceactivae.com

1.4. Emergency telephone number (U.S. and Europe):

T. 800-424-9300 (CHEMTREC)

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.



Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P280 Wear protective gloves and eye/face protection.



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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.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Ethoxylated fatty alcohol

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts)

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

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

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
$\geq 40\%$ - < 50%	Ethoxylated fatty alcohol	CAS: 61827-42-7	3.3/1 Eye Dam. 1 H318	Free EINECS because it is polymer.
$\geq 25\%$ - < 30%	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, ethoxylated, methyl sulfates (salts)	CAS: 68989-03-7	 3.3/1 Eye Dam. 1 H318 4.1/C2 Aquatic Chronic 2 H411	Info: N.A.

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:



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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.

Carbon dioxide (CO₂).

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.

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.



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- 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 (+5 ° 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:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular

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)
One-time gloves.
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



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9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Amber	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	-10°C approx	--	--
Boiling point or initial boiling point and boiling range:	100°C approx	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	100 - 199 ° C	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	5,5	--	--
Kinematic viscosity:	> 20,5 mm ² /sec (40 °C)	--	--
Solubility in water:	completely soluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1,01 g/mL approx.	--	--
Relative vapour density:	N.A.	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	No	--	--
Oxidizing properties:	No	--	--
Fat Solubility:	Soluble in ethanol	--	--

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 hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met



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- 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
 - 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: 61827-42-7
- 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
- Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts) - CAS: 68989-03-7
- a) acute toxicity:
 - Test: LC50 - Route: Oral - Species: Rat > 2000 mg/kg
 - c) serious eye damage/irritation:
 - Test: Eye Corrosive - Route: Eyes - Species: Rabbit Risk of serious eye damage.
 - f) carcinogenicity:
 - Negative - There are no known carcinogenic chemicals in this product.
- 11.2. Information on other hazards
- Endocrine disrupting properties:
- No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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- The product is classified: Aquatic Chronic 2 - H411
- Ethoxylated fatty alcohol - CAS: 61827-42-7
- 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
- Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts) - CAS: 68989-03-7
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Danio rerio = 28 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia > 10 mg/l - Duration h: 48
 - Endpoint: NOEC - Species: Danio rerio = 24 mg/l
- e) Plant toxicity:
- Endpoint: EC50 - Species: Algae > 1 mg/l - Duration h: 72
- 12.2. Persistence and degradability
- Ethoxylated fatty alcohol - CAS: 61827-42-7
- Biodegradability: Not persistent and Biodegradable - Test: Method OECD 301 /B - Duration h: 28d Outcome: > o = 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
- Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts) - CAS: 68989-03-7
- Biodegradability: Non-readily biodegradable - Test: Method OECD 301 /B - Duration h: Closed bottle, 28d - %: 32 - Notes: (<60% OECD 301B)
- 12.3. Bioaccumulative potential
- N.A.
- 12.4. Mobility in soil
- Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts) - CAS: 68989-03-7
- Mobility in soil: Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- 12.5. Results of PBT and vPvB assessment
- vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
- No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
- None

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.

SECTION 14: Transport information





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- 14.1. UN number or ID number
ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082
- 14.2. UN proper shipping name
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts))
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts))
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts))
- 14.3. Transport hazard class(es)
ADR-Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
IMDG-EmS: F-A , S-F
- 14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 274 335 601
ADR-Transport category (Tunnel restriction code): (E)
IATA-Passenger Aircraft: 964
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 964
IATA-S.P.: A97 A158
IATA-ERG: 9L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

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)



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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
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)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 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

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

Product belongs to category: E2

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.

H411 Toxic to aquatic life with long lasting effects.



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Hazard class and hazard category	Code	Description
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878. 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
Aquatic Chronic 2, H411	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).
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



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STEL:	by Rail. 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