



We know what we talk about

Safety Data Sheet ACTIVAE 1ST-L



Safety Data Sheet dated 3/10/2021, version 3

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

1.1. Product identifier

Mixture identification:

Trade name:

ACTIVAE 1ST-L

Trade code:

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

Recommended use:

Industrial applications.

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:

IndSpyre Solutions

1755 North Brown Road, Suite 350

Lawrenceville, GA 30043

Phone 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)



Warning, Met. Corr. 1, May be corrosive to metals.



Warning, Acute Tox. 4, Harmful if swallowed.



Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.



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



Warning, Aquatic Acute 1, Very toxic to aquatic life.



Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



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Danger

Hazard statements:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash thoroughly with plenty of water and soap after use.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

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.

P391 Collect spillage.

Special Provisions:

None

Contains

Peg - 2 Tallow Amine

phosphoric acid ... %, orthophosphoric acid ... %

Tri methyl alkyl ammonium chloride

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
$\geq 30\%$ - $< 40\%$	Peg - 2 Tallow Amine	CAS: 61791-44-4 EC: 620-540-6	3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 4.1/C1 Aquatic Chronic 1 H410 M=1.	Others CAS N° 1218787-32-6 Exempt from EINECS Registration N ° because polymer
$\geq 10\%$ - $< 12.5\%$	phosphoric acid ... %, orthophosphoric acid ... %	Index number: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2	2.16/1 Met. Corr. 1 H290 3.2/1B Skin Corr. 1B H314 3.1/4/Oral Acute Tox. 4 H302	Info: N.A.



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>= 3% - < 5%	Tri methyl alkyl ammonium chloride	CAS: EC:	112-02-7 203-928-6	 3.2/1C Skin Corr. 1C H314  3.3/1 Eye Dam. 1 H318  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410  3.1/4/Oral Acute Tox. 4 H302	Info: N.A.
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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

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 induce vomiting.
Give nothing to eat or drink.

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

Nausea
Headache
Irritation of the eyes, skin, nose, throat.

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.



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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
 - 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.
 - 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
 - phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2
 - EU - TWA(8h): 1 mg/m³ - STEL: 2 mg/m³
 - ACGIH - TWA(8h): 1 mg/m³ - STEL: 3 mg/m³ - Notes: URT, eye and skin irr
 - DNEL Exposure Limit Values
 - Peg - 2 Tallow Amine - CAS: 61791-44-4
 - Worker Industry: 0.3 mg/kg bw/day - Consumer: 0.214 mg/kg bw/day - Exposure:
 - Human Dermal - Frequency: Long Term, systemic effects



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Worker Professional: 2.112 mg/m³ - Consumer: 0.745 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.214 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

- Peg - 2 Tallow Amine - CAS: 61791-44-4
 - Target: Fresh Water - Value: 0.000214 mg/l
 - Target: Marine water - Value: 0.000021 mg/l
 - Target: Freshwater sediments - Value: 1.692 mg/l
 - Target: Marine water sediments - Value: 0.1692 mg/l
 - Target: Water (intermittent discharge) - Value: 5 mg/kg
 - Target: Soil - Value: 1.5 mg/l

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.

Respiratory protection:

- In the case in which the product, during the application, develops fog and / or aerosol:
- Filtering Half-face mask (DIN EN 149).
- Mask with filter "A" , brown colour

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	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Light yellow	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>100 ° C	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	2,25	--	--
Kinematic viscosity:	<= 20,5 mm ² /sec (40 °C)	--	--
Solubility in water:	disperdible	--	--



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Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1,05 g/mL approx.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

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

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with powerful oxidising agents.

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

The product is classified: Acute Tox. 4 H302

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

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



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- 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:
- Peg - 2 Tallow Amine - CAS: 61791-44-4
- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat > 300-2000 mg/kg - Source: OECD 401
 - b) skin corrosion/irritation:
 - Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Duration: 4h - Source: OECD 404
 - c) serious eye damage/irritation:
 - Test: Eye Corrosive - Route: Eyes - Species: Rabbit Positive - Source: Read Across
 - d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: Inhalation Mist - Species: Guinea Pig Negative - Source: OECD 406 - Read Across
- phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2
- a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 1530 mg/kg
 - Test: No Observed Adverse Effect Level - Route: Oral - Species: Rat = 250 mg/kg - Notes: Tossicità dopo assunzione ripetuta (subacuta, subcronica, cronica)
 - Test: LD50 - Route: Skin - Species: Rabbit = 2740 mg/kg
 - b) skin corrosion/irritation:
 - Test: Eye Corrosive - Route: Eyes Positive
 - Test: Skin Corrosive - Route: Skin Positive
 - g) reproductive toxicity:
 - Test: Reproductive Toxicity - Route: Oral - Species: Rat > 500 mg/kg
- Tri methyl alkyl ammonium chloride - CAS: 112-02-7
- a) acute toxicity:
 - Test: LD/LC50 (ATE mix) - Route: Oral - Species: Rat > 2000 mg/kg - Notes: (calculated)
 - Test: LD/LC50 (ATE mix) - Route: Skin - Species: Rabbit > 5000 mg/kg - Notes: (calculated)
 - b) skin corrosion/irritation:
 - Test: Eye Irritant - Route: Skin - Species: Rabbit Positive
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
- 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 Acute 1 - H400; Aquatic Chronic 1 - H410
- Peg - 2 Tallow Amine - CAS: 61791-44-4
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 0.1-1 mg/l - Duration h: 96 - Notes: OECD 203 - Read Across
 - Endpoint: EC50 - Species: Daphnia > 0.01-0.1 mg/l - Duration h: 48 - Notes: OECD 202
 - Endpoint: EC50 - Species: Algae > 0.01-0.1 mg/l - Duration h: 72 - Notes: OECD 201
 - Endpoint: EC10 - Species: Algae > 0.01-0.1 mg/l - Duration h: 72 - Notes: OECD 201
 - b) Aquatic chronic toxicity:
 - Endpoint: EC10 - Species: Daphnia > 0.001-0.01 mg/l - Duration h: 504 - Notes: OECD 211
- phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2
- a) Aquatic acute toxicity:
 - Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48
 - Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72
 - Endpoint: LC50 - Species: Fish < 3.25 U pH - Duration h: 96
- Tri methyl alkyl ammonium chloride - CAS: 112-02-7
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 0.71 mg/l - Duration h: 96 - Notes: OECD 203
 - Endpoint: EC50 - Species: Daphnia = 0.09 mg/l - Duration h: 48 - Notes: OECD 202
 - Endpoint: EC10 - Species: Daphnia = 0.0068 mg/l - Duration h: 504 - Notes: OECD 211
 - b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish = 0.032 mg/l - Duration h: 672 - Notes: US EPA FIFRA 72-4(a)
 - e) Plant toxicity:
 - Endpoint: EC50 - Species: Algae = 0.18 mg/l - Duration h: 96 - Notes: OECD 201
 - Endpoint: EC10 - Species: Algae = 0.104 mg/l - Duration h: 72 - Notes: OECD 201
- 12.2. Persistence and degradability
- Peg - 2 Tallow Amine - CAS: 61791-44-4
- Biodegradability: COD (Chemical Oxygen Demand): - Test: Oxygen consumption - %: 2900 - Notes: mg O₂/g
 - Biodegradability: Readily biodegradable - Test: Method OECD 301 /B - Duration h: 28 d
- 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. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 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: 3264
IATA-UN Number: 3264
IMDG-UN Number: 3264
- 14.2. UN proper shipping name
ADR-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Peg - 2 Tallow Amine, phosphoric acid ... %, orthophosphoric acid ... %)
IATA-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Peg - 2 Tallow Amine, phosphoric acid ... %, orthophosphoric acid ... %)
IMDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Peg - 2 Tallow Amine, phosphoric acid ... %, orthophosphoric acid ... %)
- 14.3. Transport hazard class(es)
ADR-Class: 8
ADR - Hazard identification number: 80
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
- 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
Most important toxic component: Peg - 2 Tallow Amine
IMDG-EmS: F-A , S-B
- 14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): 3 (E)
IATA-Passenger Aircraft: 852
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 856
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A SW2
IMDG-Segregation: SGG1 SG36 SG49
- 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)



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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) 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:

Restriction 75

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: E1

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:



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H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.
H290 May be corrosive to metals.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

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
Met. Corr. 1, H290	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	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.



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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