Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No. : 680078
V001.8

Jeyes Fluid

Revision: 24.07.2023
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Replaces version from: 29.06.2023

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

1.1. Product identifier
Jeyes Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Hard Surface Cleaners (HSC)

1.3. Details of the supplier of the safety data sheet
Henkel Ltd.
Wood Lane End, Hemel Hempstead
HP2 Hertfordshire
4RQ
Phone: +44 (0) 1442 278000

consumer.response@henkel.com

1.4. Emergency telephone number
0800 051 4433 (Monday to Friday from 9.00 to 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):
Skin Irrit. 2
H315 Causes skin irritation.
Met. Corr. 1
H290 May be corrosive to metals.
Eye Dam. 1
H318 Causes serious eye damage.
Aquatic Chronic 3
H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Danger

Hazard statement:
H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P234 Keep only in original packaging.
P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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 doctor/ physician.
P390 Absorb spillage to prevent material damage.
P501 Dispose of contents/container in accordance with national regulation.

Contains:
D-Glucopyranose, oligomeric, decyl octyl glycosides,
C12-16 Alkyldimethylbenzylammonium chloride,
formic acid,
Lactic acid

2.3. Other hazards

Use child-resistant fastening.
tactile warning of danger

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1 500-220-1 500-220-1 01-2119488530-36	>= 1- < 5 %	Eye Dam. 1, H318		
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1 939-253-5 01-2119965180-41	>= 1- < 2,4 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, Oral, H302	M acute = 10 M chronic = 1	
formic acid 64-18-6 200-579-1 01-2119491174-37	>= 1- < 5 %	Acute Tox. 4, Oral, H302 Acute Tox. 3, Inhalation, H331 Eye Dam. 1, H318 Skin Corr. 1A, H314 Flam. Liq. 3, H226	Skin Irrit. 2; H315; C 2 - < 10 % Eye Irrit. 2; H319; C 2 - < 10 % Skin Corr. 1B; H314; C 10 - < 90 % Skin Corr. 1A; H314; C >= 90 %	EU OEL
Lactic acid 79-33-4 201-196-2 01-2119474164-39	>= 1- < 3 %	Skin Corr. 1C, H314 Eye Dam. 1, H318		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately under running water (for 10 minutes), thereafter seek immediate specialist medical advise.

Ingestion:
Do not induce vomiting, seek medical advice immediately.
Rinse mouth with water, (only if the person is conscious).

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

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

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

Extinguishing media which must not be used for safety reasons:

None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Danger of slipping on spilled product.

If large amounts are released contact the fire service.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special measures required if used properly.

Hygiene measures:

Protective equipment only required in case of industrial use or for large packs (not for household packs)

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

7.2. Conditions for safe storage, including any incompatibilities
Store dry at between +5 and +40°C.
Consider national regulations.

7.3. Specific end use(s)
Hard Surface Cleaners (HSC)

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters
Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Remarks
FORMIC ACID 64-18-6	5	9,6	Time Weighted Average (TWA):		EH40 WEL
FORMIC ACID 64-18-6	5	9	Time Weighted Average (TWA):	Indicative	ECTLV

8.2. Exposure controls

Respiratory protection:
Not needed.

Hand protection:
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid low viscosity colourless to yellow
Odor	characteristic
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	> 100 °C (> 212 °F) No flash point up to 100°C. Aqueous preparation.
Auto-ignition temperature	Currently under determination

Decomposition temperature	Currently under determination
pH	2,2 - 2,8 pH/aqueous solutions, dispersions/pH meter::97001401
(; Conc.: 100 % product)	
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic	< 20 mPa.s no method / method unknown
()	
Solubility (qualitative)	soluble in water
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density	1,014 - 1,024 g/cm3 Density/fluids/oscillation
()	method::97003901
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

9.2.1. Information with regard to physical hazard classes

9.2.2. Further safety characteristics

Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)	
Value [g (NAOH)/100 g]]	0,9; Alcali reserve/D+C/Young::00313400

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under normal conditions of temperature and pressure.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	LD50	344 mg/kg	rat	not specified
formic acid 64-18-6	LD50	730 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Lactic acid 79-33-4	LD50	3.543 mg/kg	rat	EPA OPP 81-1 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	LD50	2.848 mg/kg	rat	not specified
formic acid 64-18-6	LD50	> 2.000 mg/kg	rat	not specified
Lactic acid 79-33-4	LD50	> 2.000 mg/kg	rabbit	EPA OPP 81-2 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
formic acid 64-18-6	LC50	7,85 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Lactic acid 79-33-4	LC50	> 7,94 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	corrosive	4 h	rabbit	not specified
formic acid 64-18-6	corrosive		human	not specified

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	Category 1 (irreversible effects on the eye)		rabbit	EPA OPPTS 870.2400 (Acute Eye Irritation)
Lactic acid 79-33-4	highly irritating		rabbit	In vitro

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
formic acid 64-18-6	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Lactic acid 79-33-4	not sensitising	Buehler test	guinea pig	EPA OPP 81-6 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
formic acid 64-18-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
formic acid 64-18-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
formic acid 64-18-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
formic acid 64-18-6	negative	sister chromatid exchange assay in mammalian cells	with and without		OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Lactic acid 79-33-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Lactic acid 79-33-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Lactic acid 79-33-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
formic acid 64-18-6	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	not carcinogenic	oral: feed	2 y daily	rat	male	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	NOAEL P 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	NOAEL P 31 mg/kg NOAEL F1 48 mg/kg NOAEL F2 48 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
formic acid 64-18-6	NOAEL P 1.000 mg/kg NOAEL F1 1.000 mg/kg NOAEL F2 1.000 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	NOAEL 1.000 mg/kg	oral: gavage	90 d daily	rat	EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	NOAEL 31 mg/kg	oral: feed	95 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
formic acid 64-18-6	NOAEL 400 mg/kg	oral: feed	52 w daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
formic acid 64-18-6	NOAEL 0,122 mg/l	inhalation	13 w 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Lactic acid 79-33-4	NOAEL 50.000 mg/l	oral: drinking water	13 w daily	rat	not specified

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	LC50	> 100 - 500 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	LC50	0,28 mg/l	96 h	Pimephales promelas	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	NOEC	0,032 mg/l	34 d	Pimephales promelas	EPA OTS 797.1000 (Fish Early-life Stage Toxicity Test)
formic acid 64-18-6	LC50	130 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Lactic acid 79-33-4	LC50	320 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	EC50	0,016 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
formic acid 64-18-6	EC50	365 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Lactic acid 79-33-4	EC50	240 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	NOEC	0,0042 mg/l	21 d	Daphnia magna	EPA OPP 72-4 (Fish Early Life-Stage/Aquatic Invert.Life-Cyclcle Studies)
formic acid 64-18-6	NOEC	100 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	EC50	37 mg/l	72 h	Desmodesmus subspicatus	DIN 38412-09
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	EC50	0,049 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	EC10	0,009 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
formic acid 64-18-6	EC50	1.240 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
formic acid 64-18-6	EC10	295 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Lactic acid 79-33-4	EC50	3.500 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Lactic acid 79-33-4	NOEC	1.900 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	EC0	> 10.000 mg/l	16 h	not specified	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	EC50	7,75 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
formic acid 64-18-6	EC10	33,9 mg/l	17 h		not specified

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	readily biodegradable	no data	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	readily biodegradable	aerobic	95,5 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
formic acid 64-18-6	readily biodegradable	aerobic	72 - 92 %	28 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Lactic acid 79-33-4	readily biodegradable	aerobic	75,5 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	79	35 d		Perca fluviatilis	not specified

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	2,75		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
formic acid 64-18-6	-2,1	23 °C	EU Method A.8 (Partition Coefficient)
Lactic acid 79-33-4	-0,62		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
C12-16 Alkyldimethylbenzylammonium chloride 68424-85-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
formic acid 64-18-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Lactic acid 79-33-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
Only completely empty containers are to be disposed of as recoverable materials.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	1760
RID	1760
ADN	1760
IMDG	1760
IATA	1760

14.2. UN proper shipping name

ADR	CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid)
RID	CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid)
ADN	CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid)
IMDG	CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid)
IATA	Corrosive liquid, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Formic acid)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 %	non-ionic surfactants
	phosphonates
Further ingredients	Perfumes
	Limonene
	disinfectants

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s): 2, 3