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

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Replaces version from: -

Jeyes Fluid Multi-Usage Disinfectant

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

1.1. Product identifier
Jeyes Fluid Multi-Usage Disinfectant

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
WC/toilet cleanser

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

consumer.response@henkel.com

1.4. Emergency telephone number
Henkel Hemel Hempstead: +44 1442 278000 / 0845 490 0176 (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):
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:
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.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye 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 POISON CENTER/doctor.
P501 Introduce fully emptied container n accordance with national regulation into recycling / municipal waste stream.

Contains:
D-Glucopyranose, oligomeric, decyl octyl glycosides,
Lactic acid,
formic acid

2.3. Other hazards
None if used properly.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

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

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	500-220-1	01-2119488530-36	>= 1- < 5 %	Serious eye damage 1 H318
Lactic acid 79-33-4	201-196-2	01-2119474164-39	>= 1- < 2,5 %	Skin irritation 2; Dermal H315 Serious eye damage 1 H318
formic acid 64-18-6	200-579-1	01-2119491174-37	>= 1- < 1,5 %	Acute toxicity 4; Oral H302 Acute toxicity 3; Inhalation H331 Serious eye damage 1 H318 Skin corrosion 1A H314 Flammable liquids 3 H226
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	263-080-8		>= 0,1- < 1 %	Acute hazards to the aquatic environment 1 H400 Skin corrosion 1B H314 Acute toxicity 4; Oral H302 Acute toxicity 4; Dermal H312 Chronic hazards to the aquatic environment 1 H410

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 with plenty of running water (for 10 minutes), seek medical attention from a specialist.

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.

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
If large amounts are released contact the fire service.
Avoid contact with skin and eyes.
Danger of slipping on spilled product.
Ensure adequate ventilation.

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)
WC/toilet cleanser

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/m^3	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

The following data apply to the whole mixture.

a) Appearance	liquid thin colourless
b) Odor	citric
c) Odour threshold	No data available / Not applicable
d) pH (20 °C (68 °F); Conc.: 100 % product; Solvent: None)	2,9 - 3,5
e) Melting point	No data available / Not applicable
f) Initial boiling point and boiling range	No data available / Not applicable
g) Flash point	No flash point up to 100°C. Aqueous preparation.
h) Evaporation rate	No data available / Not applicable
i) Flammability (solid , gas)	No data available / Not applicable
j) Upper / lower flammability or explosive limits	No data available / Not applicable
k) Vapour pressure	No data available / Not applicable
l) Vapor density	No data available / Not applicable
m) Relative density	
Density (20 °C (68 °F))	1,012 - 1,022 g/cm3
n) Solubility (ies)	soluble in water
o) Partition coefficient: n-octanol/water	No data available / Not applicable
p) Auto-ignition temperature	No data available / Not applicable
q) Decomposition temperature	No data available / Not applicable
r) Viscosity	No data available / Not applicable
s) Explosive properties	No data available / Not applicable
t) Oxidising properties	No data available / Not applicable

9.2. Other information

Not applicable

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 toxicological effects

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)
Lactic acid 79-33-4	LD50	3.543 mg/kg	rat	EPA OPP 81-1 (Acute Oral Toxicity)
formic acid 64-18-6	LD50	730 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	LD50	1.080 mg/kg	rat	OECD Guideline 401 (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
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
Lactic acid 79-33-4	LC50	> 7,94 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
formic acid 64-18-6	LC50	7,85 mg/l	vapour	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)
Lactic acid 79-33-4	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
formic acid 64-18-6	corrosive		human	not specified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	corrosive	4 h	rabbit	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)
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
Lactic acid 79-33-4	not sensitising	Buehler test	guinea pig	EPA OPP 81-6 (Skin Sensitisation)
formic acid 64-18-6	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (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
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)
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)

Carcinogenicity

No data available.

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
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
Lactic acid 79-33-4	NOAEL 50.000 mg/l	oral: drinking water	13 w daily	rat	not specified
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)

Aspiration hazard:

No data available.

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.

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)
Lactic acid 79-33-4	LC50	320 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute 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)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	LC50	0,93 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	NOEC	0,032 mg/l	34 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to 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	20 mg/l	48 h	Daphnia magna	not specified
Lactic acid 79-33-4	EC50	240 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
formic acid 64-18-6	EC50	365 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	EC50	0,016 mg/l	48 h	Daphnia sp.	EU Method C.2 (Acute Toxicity for Daphnia)

Chronic toxicity to aquatic invertebrates

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
formic acid 64-18-6	NOEC	100 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	NOEC	0,0042 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.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	EC0	5,7 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	EC50	21 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Lactic acid 79-33-4	NOEC	1.9 g/l	70 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Lactic acid 79-33-4	EC50	3.5 g/l	70 h	Selenastrum capricomutum (new name: 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)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	EC50	0,049 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to 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		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
formic acid 64-18-6	EC10	33,9 mg/l	17 h		not specified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	EC 50	7,75 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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)
Lactic acid 79-33-4	readily biodegradable		> 60 %		OECD 301 A - F
formic acid 64-18-6	readily biodegradable	aerobic	72 - 92 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 61789-71-7	79	35 d		Lepomis gibbosus	not specified

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

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.
Lactic acid 79-33-4	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.

12.6. 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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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
Further ingredients	Perfumes
	Limonene
	disinfectants

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

< 5 %	non-ionic surfactants
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 vapor.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
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.

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): 1