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

1.1. Product identifier

DataFlash DF 1712 DF 1720 DF 1722

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

Use of the substance/mixture

Disinfectant
SU20 Gesundheitsdienstleistungen
SU22 Professionelle Verwendungen Öffentlicher Bereich (Verwaltung, Erziehung, Unterhaltung). Dienstleistungen, Handwerk)
PC8 Biozidprodukte (z. B. Desinfektionsmittel, Schädlingsbekämpfungsmittel)
PROC10 Rolleranwendung oder Bürsten
ERC11B Ausgedehnte dispersive Innenanwendung von langlebigen Artikel und Materialien mit hoher oder beabsichtigter Freilassung.
SU20 Health Services
SU22 Professional uses Public sector (administration, education, entertainment, services, crafts)
PC8 Biocidal products (e.g. disinfectants, pesticides)
PROC10 Roller application or brushing
ERC11B Extended indoor dispersive use of durable articles and materials with high or intended release.

Uses advised against

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name:	ITW LLC & Co. KG	
Street:	Am Eichenbach 14	
Place:	D-73054 Eislingen/Fils	
Telephone:	+49 800 6273002	
E-mail:	skrautmann@itwindustrialsolutions.com	
Contact person:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00	Telephone: ++49 800 6273002
E-mail:	info@itwindustrialsolutions.com	
Internet:	www.itwindustrialsolutions.com	

Responsible Department:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00 Deutschland: Vergiftungs-Informations-Zentrale Freiburg 0761 19240 Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in Switzerland dial 145) United Kingdom : National Poisons Information Service - Phone number : 8448920111 Österreich : Vergiftungsinformationszentrale Vienna - Telefon-Nummer : +43 1 406 43 43 Schweiz : Tox Info Suisse - Telefon-Nummer : +41 44 251 51 51 España : Instituto Nacional de Toxicología - Teléfono : +34 91 562 04 20 România (Romania): Spitalul de Urgenta Floreasca 021 230 8000 România (Romania): Spitalul de Urgenta Floreasca 021 230 8000 CAV “Ospedale Pediatrico Bambino Gesù” – Roma Tel. (+39) 06.6859.3726 CAV “Azienda Ospedaliera Università di Foggia” – Foggia Tel. 800.183.459 CAV “Azienda Ospedaliera A. Cardarelli” – Napoli Tel. (+39) 081.545.3333 CAV Policlinico “Umberto I” – Roma Tel. (+39) 06.4997.8000 CAV Policlinico “A. Gemelli” – Roma Tel. (+39) 06.305.4343 CAV Azienda Ospedaliera “Careggi” U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819 CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444 CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29 CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00 CAV Centro antiveleni Veneto – Verona Tel. 800.011.858 Slovakia: National Toxicological Information Centre Bratislava +421 2 5465 2307 Czech Republic: Ministry of Health of the Czech Republic Chemical Substances and Biocidal Products Unit +420 267 082 236 Slovakia: National Toxicological Information Centre Bratislava +421 2 5465 2307
1.4. Emergency telephone number:	Deutschland: ++49 800 6273002 Slovakia: National Toxicological Information Centre Bratislava +421

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Quaternäre Ammoniumverbindungen, Benzyl-C12-16-alkyldimethyl-, Chlorid 0,25 g, Didecyldimethylammoniumchlorid 0,25 g, Quaternäre Ammoniumverbindungen, C12-14-Alkyl[(ethylphenyl)methyl]dimethyl-, Chloride 0,25 g, / 100 g
Quaternary ammonium compounds, benzyl C12-16 alkyldimethyl, chloride 0.25g, didecyldimethylammonium chloride 0.25g, quaternaries Ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl-, chlorides 0.25 g, / 100 g

Hazard statements

H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P103	Read carefully and follow all instructions.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Special labelling of certain mixtures

EUH208 Contains Benzisothiazoline. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
68424-85-1	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride			0,1-1 %
	270-325-2		01-2119965180-41	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410			
85409-23-0	N-Alkyl(C12-14)-N-ethylbenzyl-N,N-dimethylammonium chloride			0,1-1 %
	287-090-7		01-2120771812-51	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410			
7173-51-5	didecyldimethylammonium chloride			0,1-1 %
	230-525-2	612-131-00-6	01-2119945987-15	
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H301 H314 H318 H400 H410 EUH071			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			0,005-0.007 %
	220-120-9	613-088-00-6	01-2120761540-60	
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H330 H302 H315 H318 H317 H400 H410			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
68424-85-1	270-325-2	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride	0,1-1 %
	oral: ATE = 500 mg/kg		
85409-23-0	287-090-7	N-Alkyl(C12-14)-N-ethylbenzyl-N,N-dimethylammonium chloride	0,1-1 %
	dermal: LD50 = 2300 mg/kg; oral: LD50 = 344 mg/kg		
7173-51-5	230-525-2	didecyldimethylammonium chloride	0,1-1 %
	oral: LD50 = 238 mg/kg		
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0,005-0.007 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: ATE = 500 mg/kg Skin Sens. 1; H317: >= 0,05 - 100		

Further Information

Verordnung (EG) Nr. 648/2004 des Europäischen Parlaments und des Rates vom 31. März 2004 über Detergenzien: <1% Desinfektionsmittel Konservierungsmittel: 1,2-Benzothiazolin-3-on , Pyridin-2-thiol-1-oxid
Regulation (EC) No. 648/2004 of the European Parliament and of the Council of March 31, 2004 on detergents: <1% disinfectants Preservative: 1,2-Benzothiazolin-3-one , Pyridine-2-thiol-1-oxide

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

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

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder. Carbon dioxide (CO2). Foam.

Unsuitable extinguishing media

Water. Water with tenside additive.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition.

For emergency responders

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

No data available

For cleaning up

No data available

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Observe in addition any national regulations!

Hints on joint storage

Observe in addition any national regulations!

Further information on storage conditions

none

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
68424-85-1	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride			
Consumer DNEL, long-term		inhalation	systemic	1,64 mg/m³
Consumer DNEL, long-term		dermal	systemic	5,7 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,4 mg/kg bw/day
85409-23-0	N-Alkyl(C12-14)-N-ethylbenzyl-N,N-dimethylammonium chloride			
Consumer DNEL, long-term		inhalation	systemic	18,2 mg/m³
Consumer DNEL, long-term		dermal	systemic	8,6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,4 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
68424-85-1	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride	
Freshwater		0,0009 mg/l
Marine water		0,0009 mg/l
Freshwater sediment		0,0267 mg/kg
Marine sediment		0,0267 mg/kg
Soil		7 mg/kg
85409-23-0	N-Alkyl(C12-14)-N-ethylbenzyl-N,N-dimethylammonium chloride	
Freshwater		0,0002 mg/l
Marine water		0,0002 mg/l
Freshwater sediment		0,282 mg/l
Marine sediment		0,282 mg/l
Soil		1,4 mg/kg

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Butyl rubber. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing:

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless	
Auto-ignition temperature:		400 °C
Water solubility:		completely miscible
Vapour pressure: (at 20 °C)		58 hPa
Vapour pressure: (at 50 °C)		293 hPa
Density (at 20 °C):		0,9 g/cm³

9.2. Other information

refraction index: 1,34-1,36

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5. Incompatible materials

Incompatible materials No data available

10.6. Hazardous decomposition products

Bei bestimmungsgemäßer Verwendung keine Zersetzung bekannt.
No known decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68424-85-1	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride				
	oral	ATE 500 mg/kg			
85409-23-0	N-Alkyl(C12-14)-N-ethylbenzyl-N,N-dimethylammonium chloride				
	oral	LD50 344 mg/kg	Rabbit		
	dermal	LD50 2300 mg/kg	Rabbit		
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation (0 h) vapour	ATE 0,5 mg/l			
	inhalation (0 h) dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains Benzisothiazoline. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
68424-85-1	N-Alkyl(C12-16)-N-benzyl-N,N-dimethylammonium chloride						
	Acute fish toxicity	LC50 mg/l	0,515	96 h	Lepomis macrochirus (Bluegill)		
	Acute algae toxicity	ErC50 mg/l	0,049	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	0,0142	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of Wastes Code - used product

200399 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other municipal wastes; municipal wastes not otherwise specified

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

No data available

Other applicable information

No data available

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains Benzisothiazoline. May produce an allergic reaction.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)