

F 865 Plus

Revision date: 13/01/2026

Product code: 89300232

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

F 865 Plus

UFI: U7VX-HA45-G98V-KGWF

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

Cleaner for commercial dishwashers: Special aluminium detergent

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: Winterhalter Gastronom GmbH
 Street: Winterhalterstrasse 2 - 12
 Place: D-88074 Meckenbeuren
 Telephone: +49 7542 4020
 E-mail: info@winterhalter.com
 Contact person: Business Unit Chemicals
 E-mail: sds@winterhalter.com
 Internet: www.winterhalter.com

Supplier

Company name: Winterhalter Ltd.
 Street: Winterhalter House, Roebuck Way
 Place: GB- Knowlhill Milton Keynes MK5 8WH
 Telephone: +44 1908 3590-00
 E-mail: info@winterhalter.co.uk
 Contact person: Business Unit Chemicals
 E-mail Contact person: sds@winterhalter.com
 Internet: www.winterhalter.co.uk

1.4. Emergency telephone number:

Domestic emergency number (Chemtrec): +44 20 3807 3798
 International emergency number (Chemtrec): +44 20 3885 0382

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Met. Corr. 1; H290
 Skin Corr. 1; H314
 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Potassium hydroxide
 Silicic acid, potassium salt (MR ≤ 1.6)
 Disodium metasilicate

Signal word: Danger

Pictograms:



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Hazard statements

- H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

- P280 Wear protective gloves and eye protection/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 POISON CENTER/doctor.
P501 Dispose of waste according to applicable legislation.

2.3. Other hazards

There is no information available.

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)			
1310-58-3	Potassium hydroxide			5 - < 10 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Acute Tox. 4, Skin Corr. 1A; H302 H314			
1312-76-1	Silicic acid, potassium salt (MR ≤ 1.6)			5 - < 10 %
	215-199-1		01-2119456888-17	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1; H290 H314 H318			
6834-92-0	Disodium metasilicate			5 - < 10 %
	229-912-9	014-010-00-8	01-2119449811-37	
	Skin Corr. 1B, STOT SE 3; H314 H335			
497-19-8	Sodium carbonate			0.3 - < 2.5 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
7173-51-5	Didecyltrimethylammonium chloride			0.1 - < 0.3 %
	230-525-2	612-131-00-6	01-2119945987-15	
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H301 H314 H318 H400 H411			

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	
1310-58-3	215-181-3	Potassium hydroxide	5 - < 10 %
		oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: ≥ 5 - 100 Skin Corr. 1B; H314: ≥ 2 - < 5 Skin Irrit. 2; H315: ≥ 0,5 - < 2 Eye Irrit. 2; H319: ≥ 0,5 - < 2	
1312-76-1	215-199-1	Silicic acid, potassium salt (MR ≤ 1.6)	5 - < 10 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
497-19-8	207-838-8	Sodium carbonate	0.3 - < 2.5 %
		oral: LD50 = 4090 mg/kg	

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7173-51-5	230-525-2	Didecyldimethylammonium chloride	0.1 - < 0.3 %
		oral: LD50 = 238 mg/kg Aquatic Acute 1; H400: M=10	

Labelling for contents according to Regulation (EC) No 648/2004

15 % - < 30 % phosphates, < 5 % amphoteric surfactants, < 5 % cationic surfactants.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

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 cleaning up**

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Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

For cleaning small quantities (drop leakage): Flush down the drain with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Unsuitable container/equipment material: Metal.

Hints on joint storage

Do not store together with: Acid.

7.3. Specific end use(s)

Cleaner for commercial dishwashers: Special aluminium detergent

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1310-58-3	Potassium hydroxide			
Worker DNEL, long-term		inhalation	local	1 mg/m ³
Consumer DNEL, long-term		inhalation	local	1 mg/m ³
497-19-8	Sodium carbonate			
Worker DNEL, long-term		inhalation	local	10 mg/m ³
Consumer DNEL, long-term		inhalation	local	5 mg/m ³
7173-51-5	Didecyltrimethylammonium chloride			
Worker DNEL, long-term		inhalation	systemic	18,2 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,6 mg/kg bw/day
67-63-0	Propan-2-ol			
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
DNEL type				
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		
7173-51-5	Didecyldimethylammonium chloride	
Freshwater		0,002 mg/l
Marine water		0,0002 mg/l
Freshwater sediment		2,82 mg/kg
Marine sediment		0,282 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,595 mg/l
Soil		1,4 mg/kg
67-63-0	Propan-2-ol	
Freshwater		140,9 mg/l
Freshwater (intermittent releases)		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Ensure sufficient ventilation, especially in closed rooms.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Suitable eye protection: goggles (EN 166)

Hand protection

Use of protective gloves (EN ISO 374-1 / Typ B (KPT))

Examples of protective gloves:

- Material: nitrile rubber; material thickness: 0.07 mm; breakthrough time: 30 minutes
- Material: polyvinyl chloride (vinyl); material thickness: 0.06 mm; breakthrough time: 30 minutes

Skin protection

Wear suitable work clothes when working.

Respiratory protection

Not required if handled as intended.

In case of intensive or prolonged exposure wear self-contained breathing apparatus (EN 133).

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Liquid

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Colour:	colourless	
Odour:	product-specific	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		100 °C
Flammability:		not applicable
		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		not determined
pH-Value (at 20 °C):		14
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,4 g/cm ³
Relative vapour density:		not determined

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined

Solid content: not determined

Viscosity / dynamic (at 20 °C): < 10 mPa·s

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with metals with hydrogen evolution.

Reacts with water and acids, generating heat.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4. Conditions to avoid

none

10.5. Incompatible materials

Metal.

Keep away from: Acid

10.6. Hazardous decomposition products

No decomposition when stored and used as directed.

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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) > 5000 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
1310-58-3	Potassium hydroxide				
	oral	LD50 333 mg/kg	Rat	ECHA	OECD 425
1312-76-1	Silicic acid, potassium salt (MR ≤ 1.6)				
	oral	LD50 >5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 >5000 mg/kg	Rat	Manufacturer	
497-19-8	Sodium carbonate				
	oral	LD50 4090 mg/kg	Rat	IUCLID	
7173-51-5	Didecyltrimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat	Manufacturer	

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. (On basis of test data)

Serious eye damage/eye irritation: Causes serious eye damage. (On basis of test data)

Sensitising effects

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

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.

11.2. Information on other hazards**Endocrine disrupting properties**

No information available.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

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

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
1312-76-1	Silicic acid, potassium salt (MR ≤ 1.6)					
	Acute fish toxicity	LC50 >146 mg/l	96 h	Leuciscus idus (golden orfe)	Manufacturer	
	Acute algae toxicity	ErC50 207 mg/l	72 h	Scenedesmus subsp. icatus	Manufacturer	
	Acute crustacea toxicity	EC50 >146 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	
497-19-8	Sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 h	Lepomis macrochirus		
	Acute crustacea toxicity	EC50 265 mg/l	48 h	Daphnia magna	IUCLID	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
7173-51-5	Didecyltrimethylammonium chloride	2,1		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

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 meet the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

060205 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; other bases; hazardous waste

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

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number: UN 1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, Disodium metasilicate)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, Disodium metasilicate)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, Disodium metasilicate)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-A, S-B
 Segregation group: 18 - alkalis

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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1719
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, Disodium metasilicate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8



Special Provisions:	A3 A803
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

Hazchem code: 2R

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

Directive 2010/75/EU on industrial emissions: 0,125 % (1,749 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 0,125 % (1,749 g/l)

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).

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**Changes**

This safety data sheet complies with the Regulation amending Annex II ((EC) No 2020/878) to Regulation (EC) No 1907/2006.

Abbreviations and acronyms

Met. Corr: Corrosive to metals
 Acute Tox: Acute toxicity
 Skin Corr: Skin corrosion
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 STOT SE: Specific target organ toxicity - single exposure
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 CAS: Chemical Abstracts Service
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.

Safety Data Sheet

according to UK REACH Regulation

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Relevant H and EUH statements (number and full text)

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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