

		Page: 1
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Trade name : CIF SAFEGUARD PROFESSIONAL

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

Use of the Substance/Mixture : Hard surface cleaner
Kitchen surface cleaner
Surface disinfectant
for food contact surface disinfection
for general surface disinfection
Detergent

Recommended restrictions on use : Uses other than those identified are not recommended

Sector-specific worker exposure

AISE_SWED_PW_10_1

AISE_SWED_PW_11_1

AISE_SWED_PW_19_1

PC8 Biocidal products

PC35 Washing and cleaning products

1.3 Details of the supplier of the safety data sheet Unilever UK Ltd. (UPro) Kingston up Thames, KT1 2BA E-mail address of person responsible for the SDS: HazardCommunication@solenis.com Product Information 01604 405311 customerservice.uk@solenis.com	1.4 Emergency telephone Seek medical advice (show the label or safety data sheet where possible), For medical or environmental emergency only: call 0800 052 0185
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		Page: 2
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Long-term (chronic) aquatic hazard,
Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard Statements	:	H412	Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	P101 P102 P103	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read carefully and follow all instructions.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
2 / 19			

**SAFETY DATA SHEET**

Revision Date: 13.07.2026

Print Date: 27.07.2026

SDS Number: R1903258

CIF SAFEGUARD PROFESSIONAL

Version: 1.0

101105323

	EC-No. Registration number		(% w/w)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1 270-325-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,25 - < 0,5$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first-aid measures**

- General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

		Page: 4
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO₂)

Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Use a water spray to cool fully closed containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

		Page: 5
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapors/mists with a water spray jet.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with acid.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.
For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

**SAFETY DATA SHEET**

Revision Date: 13.07.2026

Print Date: 27.07.2026

SDS Number: R1903258

CIF SAFEGUARD PROFESSIONAL

Version: 1.0

101105323

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Consumers	Dermal	Long-term systemic effects	3,4 mg/kg
	Workers	Inhalation	Long-term systemic effects	3,96 mg/m3
	Workers	Dermal	Long-term systemic effects	5,7 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,64 mg/m3
	Consumers	Oral	Long-term systemic effects	3,4 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Sewage treatment plant	0,4 mg/l
	Sea sediment	13,09 mg/kg
	Soil	7 mg/kg
	Fresh water sediment	12,27 mg/kg
	Fresh water	0,0009 mg/l
	Sea water	0,00096 mg/l

8.2 Exposure controls

	Page: 7
SAFETY DATA SHEET	Revision Date: 13.07.2026
	Print Date: 27.07.2026
	SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323	Version: 1.0

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Appropriate organisational controls: : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

REACH use scenarios considered for the undiluted product:

	SWED- Sector Specific Worker Exposure Description	LCS	PROC	Duration (min)	ERC
Manual application by brushing, wiping or mopping	AISE_SWED_P W_10_1	PW	PROC10	480 min	ERC8a
Trigger spray application	AISE_SWED_P W_11_1	PW	PROC11	60 min	ERC8a
Manual application	AISE_SWED_P W_19_1	PW	PROC19	480 min	ERC8a
Biocidal products	Biocidal products	C			ERC8a
Washing and cleaning products	Washing and cleaning products	C			ERC8a

Personal protective equipment

Eye protection (EN ISO 16321) : Eye wash bottle with pure water
Tightly fitting safety goggles
Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Safety glasses or goggles (EN 16321)
The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur

		Page: 8
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

Hand protection (EN ISO 374)

Remarks : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time: ≥ 480 min

Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: ≥ 30 min

Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Skin and body protection (EN 14605) : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605)

Protective measures : No special requirements under normal use conditions

REACH use scenarios considered for the undiluted product:

	SWED- Sector Specific Worker Exposure Description	LCS	PROC	Duration (min)	ERC

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

**SAFETY DATA SHEET**

Revision Date: 13.07.2026

Print Date: 27.07.2026

SDS Number: R1903258

CIF SAFEGUARD PROFESSIONAL

Version: 1.0

101105323

Color : purple

Odor : To Match Standard (TMS)

Odor Threshold : No data available

pH : 10,50
Method: ISO 4316

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 70,00 °C

Evaporation rate : No data available

Flammability :

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1,0020 g/cm³

Solubility(ies)
Water solubility : completely soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : 600,00 °C

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

		Page: 10
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

Explosive properties : Not explosive, based on substance properties.

Oxidizing properties : Non Oxidative

9.2 Other information

Particle size : No data available

Particle Size Distribution : No data available

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : None known under normal use conditions

10.6 Hazardous decomposition products

None known under normal storage and use conditions

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:



SAFETY DATA SHEET	Revision Date: 13.07.2026
	Print Date: 27.07.2026
	SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL	Version: 1.0
101105323	

Acute oral toxicity : LD50 Oral (Rat): 350 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 2.848 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Species : Rabbit
Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : Unlikely to cause eye irritation or injury.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

		Page: 12
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified due to lack of data.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

NOAEL : 3.7
Application Route : Oral
Symptoms : No adverse effects.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

		Page: 13
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,28 mg/l
Exposure time: 96 h
Method: EPA OPP 72-1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,012 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,049 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 : 7,75 mg/l
Test Type: Respiration inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 0,0322 mg/l
Exposure time: 34 d
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00415 mg/l
Exposure time: 21 d
Species: Daphnia
Method: OECD Test Guideline 211



SAFETY DATA SHEET	Revision Date: 13.07.2026
	Print Date: 27.07.2026
	SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323	Version: 1.0

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : NOEC: 953 mg/kg
Species: Eisenia fetida (earthworms)

LC 50: 7.070 mg/kg
Species: Eisenia fetida (earthworms)

12.2 Persistence and degradability

ProductBiodegradability : This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 95,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Bioaccumulation : Bioconcentration factor (BCF): 79
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: < 3 (20 °C)
Method: OECD Test Guideline 107

log Pow: 0,004 - 2,75 (20 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

		Page: 15
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

12.6 Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

No data available

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR: Not dangerous goods

ADN: Not dangerous goods

RID: Not dangerous goods

IMDG-Code: Not dangerous goods

		Page: 16
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

IATA-DGR: Not dangerous goods

14.2 UN proper shipping name

ADR: Not dangerous goods

ADN: Not dangerous goods

RID: Not dangerous goods

IMDG-Code: Not dangerous goods

IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR: Not dangerous goods

ADN: Not dangerous goods

RID: Not dangerous goods

IMDG-Code: Not dangerous goods

IATA-DGR: Not dangerous goods

14.4 Packing group

ADR: Not dangerous goods

ADN: Not dangerous goods

RID: Not dangerous goods

IMDG-Code: Not dangerous goods

IATA-DGR: Not dangerous goods

14.5 Environmental hazards

ADR: Not applicable

ADN: Not applicable

RID: Not applicable

IMDG-Code: Not applicable

IATA-DGR: Not applicable

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

		Page: 17
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of substances subject to authorisation : Not applicable
(Annex XIV)

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

The Control of Explosives Precursors and Poisons Regulations (Poisons Act, as amended) : sodium chlorate

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

Regulation (EC) No. 648/2004, as amended : less than 5 %: Cationic surfactants, Non-ionic surfactants

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Regulation (EC) No. 648/2004 - Detergents regulation

Ingredients which must be listed on the label

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

	Page: 18
SAFETY DATA SHEET	Revision Date: 13.07.2026
	Print Date: 27.07.2026
	SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323	Version: 1.0

TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
CA. DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Further information

Revision Date: 13.07.2026

Classification of the mixture:

Aquatic Chronic 3 H412

Classification procedure:

Calculation method

Full text of H-Statements

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

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Skin Corr.	: Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -

		Page: 19
SAFETY DATA SHEET		Revision Date: 13.07.2026
		Print Date: 27.07.2026
		SDS Number: R1903258
CIF SAFEGUARD PROFESSIONAL 101105323		Version: 1.0

Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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