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Revision Number 1

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

1.1. Product identifier

Product Identifier C-91643700-001_A_PGP_CLPR7_EUR
Product Name Flash Professional disinfecting power degreaser
Product Form Mixture

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

Recommended Use Restricted to professional users
Uses advised against No information available
Main user category SU 22 - Professional uses
Product category Biocide kitchen cleaner
Use category PC8 - Biocidal Products (e.g. disinfectants, pest control)

1.3. Details of the supplier of the safety data sheet

Manufacturer	Supplier
Farmol S. p. A. Verdella 3 24040 Comun Nuovo, BG Italy	Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200

For further information, please contact

E-mail address pgsds.im@pg.com

1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304 (IRL) Emergency Tel: 1800 509 497

(IRL) Poisons information: for information or to report a poisoning incident contact The National Poisons Information Centre 01 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
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2.2. Label elements



Signal word

Warning

Hazard statements

H319 - Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children

P101 - If medical advice is needed, have product container or label at hand

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P260 - Do not breathe spray

P501 - Dispose of contents/container to an appropriate local waste system

2.3. Other hazards

No information available.

Endocrine Disruptor Information

There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

SECTION 3: Composition/information on ingredients

3.1 Substances Not

applicable

3.2 Mixtures

Chemical name	CAS No	weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Alcohol	64-17-5	1 - 5	01-21194576 10-43	200-578-6	Flam. Liq. 2(H225) Eye Irrit. 2(H319)	Eye Irrit. 2 :: 50%<=C<10 0%	-	-
Propylene Glycol Butyl Ether	5131-66-8	1 - 5	01-21194755 27-28	225-878-4	Skin Irrit. 2(H315) Eye Irrit. 2(H319)	Skin Irrit. 2 :: 20%<=C<10 0% Eye Irrit. 2 :: 20%<=C<10 0%	-	-
Ethanolamine	141-43-5	1 - 5	01-21194864 55-28	205-483-3	Acute Tox. 4 (Oral)(H302) Acute Tox. 4 (Dermal)(H312) Acute Tox. 4 (Inhalation)(H320) Skin Corr. 1B(H314) STOT SE 3(H335) Aquatic Chronic 3(H412)	STOT SE 3 :: 5%<=C<100 %	-	-

C9-11 Pareth-n	68439-46-3	<1	No data available	614-482-0	Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318)	-	-	-
Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	<1	No data available	287-090-7	Acute Tox. 4 (Oral)(H302) Skin Corr. 1B(H314) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	-	10	1
Benzalkonium Chloride	68391-01-5	<1	No data available	269-919-4	Acute Tox. 4 (Oral)(H302) Skin Corr. 1B(H314) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	-	10	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
No information available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. Discontinue use of product.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Coughing and/or wheezing. Redness. Swelling of tissue. Itching. Dryness. Pain. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. Sneezing.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Alcohol resistant foam. Carbon dioxide (CO₂).

Large Fire media CAUTION: Use of water spray when fighting fire may be inefficient. **Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture **Specific hazards arising from the chemical** None in particular.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. **For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Scoop absorbed substance into closing containers.

Methods for cleaning up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small quantities of liquid spill: Large Spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep/store only in original container. Keep tightly closed in a dry and cool place.

7.3. Specific end use(s)

Specific use(s) Cleaning/washing agents and additives.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
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Alcohol	-	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL 2000 ppm STEL 3800 mg/m ³	TWA: 1000 ppm TWA: 1907 mg/m ³	TWA: 1000 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
Ethanolamine	TWA: 1 ppm TWA: 2.5 mg/m ³ *	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL 3 ppm STEL 7.6 mg/m ³ Skin sensitizer	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ *	STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³ K*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Alcohol	-	TWA: 1000 mg/m ³ Ceiling: 3000 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³
Propylene Glycol Butyl Ether	-	TWA: 270 mg/m ³ Ceiling: 550 mg/m ³ *	-	-	-
Ethanolamine	* STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ Ceiling: 7.5 mg/m ³ *	TWA: 1 ppm TWA: 2.5 mg/m ³ H*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ A*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ iho*
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Alcohol	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³ Peak: 800 ppm Peak: 1520 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 1900 mg/m ³ STEL: 3800 mg/m ³
Ethanolamine	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ *	TWA: 0.2 ppm TWA: 0.5 mg/m ³ H* Skin sensitizer	TWA: 0.2 ppm TWA: 0.51 mg/m ³ Peak: 0.2 ppm Peak: 0.51 mg/m ³ skin sensitizer	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ skin - potential for cutaneous absorption	TWA: 2.5 mg/m ³ STEL: 7.6 mg/m ³ *
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Alcohol	STEL: 1000 ppm	-	STEL: 1000 ppm STEL: 1884 mg/m ³	TWA: 1000 mg/m ³	TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³
Ethanolamine	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Sk*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ pelle*	TWA: 3 ppm TWA: 7.5 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³	TWA: 0.2 ppm TWA: 0.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ *	* TWA: 2.5 mg/m ³ TWA: 1 ppm STEL: 7.6 mg/m ³ STEL: 3 ppm
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Alcohol	-	-	TWA: 260 mg/m ³ STEL: 1900 mg/m ³ H*	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 625 ppm STEL: 1187.5 mg/m ³	TWA: 1900 mg/m ³
Ethanolamine	* STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	* STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ STEL: 7.6 mg/m ³ H*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 5 mg/m ³ H*	STEL: 7.5 mg/m ³ TWA: 2.5 mg/m ³ *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain

Alcohol	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ Ceiling: 1920 mg/m ³	TWA: 960 mg/m ³ TWA: 500 ppm STEL: STEL ppm STEL: STEL mg/m ³	STEL: 1000 ppm STEL: 1910 mg/m ³
Ethanolamine	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ P*	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ *	TWA: 1 ppm TWA: 2.5 mg/m ³ * Ceiling: 7.6 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.5 mg/m ³ via dérmica*
Chemical name	Sweden	Switzerland	United Kingdom	Israel - Occupational Exposure Limits - TWAs	Turkey
Alcohol	NGV: 500 ppm NGV: 1000 mg/m ³ Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ STEL: 1000 ppm STEL: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³	-	-
Ethanolamine	NGV: 1 ppm NGV: 2.5 mg/m ³ Bindande KGV: 3 ppm Bindande KGV: 7.5 mg/m ³ *	TWA: 2 ppm TWA: 5 mg/m ³ STEL: 4 ppm STEL: 10 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Sk*	3ppmTWA	1ppmTWA 2.5mg/m ³ TWA

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Long term.

Chemical name	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Alcohol	343 mg/kg bw/day	950 mg/m ³	-	-
Propylene Glycol Butyl Ether	52 mg/kg bw/day	147 mg/m ³	-	-
Ethanolamine	3 mg/kg bw/day	1 mg/m ³	-	0.51 mg/m ³
C9-11 Pareth-n	2080 mg/kg bw/d	294 mg/m ³	-	-
Chemical name	Consumer - oral, long-term - local	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local	
Ethanolamine	-	0.28 mg/m ³	-	
Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic	
Alcohol	87 mg/kg bw/day	114 mg/m ³	206 mg/kg bw/day	
Propylene Glycol Butyl Ether	12.5 mg/kg bw/day	43 mg/m ³	22 mg/kg bw/day	
Ethanolamine	1.5 mg/kg bw/day	0.18 mg/m ³	1.5 mg/kg bw/day	
C9-11 Pareth-n	25 mg/kg bw/d	87 mg/m ³	1250 mg/kg bw/d	

Predicted No Effect Concentration (PNEC)

Chemical name	Fresh Water	Marine water	Intermittent release			
Alcohol	0.96 mg/L	0.79 mg/L	2.75 mg/L			
Propylene Glycol Butyl Ether	0.525 mg/L	0.052 mg/L	5.25 mg/L			
Ethanolamine	0.07 mg/L	0.007 mg/L	0.028 mg/L			
C9-11 Pareth-n	0.104 mg/L	0.104 mg/L	0.014 mg/L			
Chemical name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	Air	Oral

Alcohol	3.6 mg/kg sediment dw	2.9 mg/kg sediment dw	580 mg/L	0.63 mg/kg soil dw	-	-
Propylene Glycol Butyl Ether	2.36 mg/kg sediment dw	0.236 mg/kg sediment dw	10 mg/L	0.16 mg/kg soil dw	-	-
Ethanolamine	0.357 mg/kg sediment dw	0.036 mg/kg sediment dw	100 mg/L	1.29 mg/kg soil dw	-	-
C9-11 Pareth-n	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 mg/kg soil dw	-	-

8.2. Exposure controls

Personal Protective Equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

No special protective equipment required.

Skin and body protection

No special protective equipment required.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls

Prevent that the undiluted product reaches surface waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	colorless
Odor	Odorless.
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting Point / Freezing Point	No data available 100 - 110 °C	Not available. This property is not relevant for the safety and classification of this product
Initial boiling point and boiling range		Not applicable. This property is not relevant for liquid product forms
Flammability Limit in Air		Not available. This property is not relevant for the safety and classification of this product
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
flash point	50 - 55 °C	Closed cup Does not sustain combustion <=75°C
Autoignition temperature	No data available	Not available. This property is not relevant for the safety and classification of this product
Decomposition temperature	No Data Available	Not available. This property is not relevant for the safety and classification of this product
pH	11	
Dynamic Viscosity	5 - 10 mPa s	
Water solubility	Soluble in water	
Solubility(ies)	No Data Available	
Partition coefficient	No Data Available	Not available. This property is not relevant for the safety and classification of this product
Vapor pressure	No Data Available	Not available. This property is not relevant for the safety and classification of this product
Relative density	1 - 1.2	Not available. This property is not relevant for the safety and classification of this product
Relative vapor density	No data available	
Particle characteristics		Not available. This property is not relevant for the safety and classification of this product
Particle Size	No information available	Not available. This property is not relevant for the safety and classification of this product
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to phy. classes Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name		Oral LD50		Dermal LD50		Inhalation LC50		
Ethanol		10470 mg/kg bw (OECD 401)		-		116.9 - 133.8 mg/L air (OECD 403)		
2-Propanol, 1-butoxy-		2700 mg/kg bw (OECD 401)		> 2000 mg/kg bw (OECD 402)		-		
Ethanol, 2-amino-		1089 mg/kg bw (OECD 401)		-		-		
Alcohols, C9-11, ethoxylated		> 300 - < 2000 mg/kg bw		> 2000 mg/kg bw		-		
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		>300-2000 mg/kg bw		-		-		
Chemical name	Carcinogenicity	Species	Eye Damage	Species	Developmental toxicity	Species	Mutagenicity	Species
Alcohol	-	-	Y (OECD 405)	-	-	-	-	-
Propylene Glycol Butyl Ether	-	-	Y (OECD 405)	-	-	-	-	-
Ethanolamine	-	-	Y (OECD 405)	-	-	-	-	-
C9-11 Pareth-n	-	-	Y (100%; OECD 405)	-	-	-	-	-
Chemical name	Reproductive toxicity	Species	Skin corrosion/irritation	Species	Sensitization	Species		
Propylene Glycol Butyl Ether	-	-	Y (OECD 404)	-	-	-		

Ethanolamine	-	-	Y (OECD 404)	-	-	-
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors. **11.2.2.**

Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

Unknown aquatic toxicity Contains 0.02844 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol	275 mg/L (OECD 201; Chlorella vulgaris; 72 h)	15300 mg/L (US EPA Method E03-05; Pimephales promelas; 96 h)	> 1000 mg/L (OECD 209; 3 h)	5012 mg/L (ASTM E729-80; Ceriodaphnia dubia; 48 h)
2-Propanol, 1-butoxy-	> 1000 mg/L (Pseudokirchneriella subcapitata; 96 h)	> 560 - < 1000 mg/L (OECD 203; Poecilia reticulata; 96 h)	> 1000 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 3 h)	> 1000 mg/L (OECD 202; Daphnia magna; 48 h)
Ethanol, 2-amino-	2.8 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	349 mg/L (Cyprinus carpio; 96 h)	> 1000 mg/L (OECD 209; activated sludge, domestic; 30 min)	27.04 mg/L (OECD 202; Daphnia magna; 48 h)

Alcohols, C9-11, ethoxylated	1.4 mg/L (Pseudokirchneriella subcapitata; 96 h)	5 mg/L (Oncorhynchus mykiss; 96 h)	-	2.5 mg/L (Daphnia magna; 48 h)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	-	-	-	0.016 mg/l

Chronic Toxicity

Chemical name	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
Alcohol	-	250 mg/L (OECD 212; Danio rerio; 5 d)	2 mg/L (Ceriodaphnia dubia; 10 d)	-	> 79 mg/L (Guideline not indicated; Rana temporaria; static; freshwater; 48 h)
Propylene Glycol Butyl Ether	560 mg/L (Pseudokirchneriella subcapitata; 4 d)	180 mg/L (OECD 203; Poecilia reticulata; 4 d)	560 mg/L (OECD 202; Daphnia magna; 2 d)	-	-
Ethanolamine	1 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)	1.24 mg/L (OECD 210; Oryzias latipes; 41 d)	0.85 mg/L (OECD 202; Daphnia magna; 21 d)	-	-
C9-11 Pareth-n	-	0.11 mg/L (Pimephales promelas; 30 d)	0.77 mg/L (Daphnia magna; 21 d)	-	-

12.2. Persistence and degradability

Persistence and degradability

Chemical name	Ready Biodegradation Test (OECD 301)	Abiotic Degradation Hydrolysis	Abiotic Degradation Photolysis	Biodegradation Other Tests
Alcohol	84% O ₂ ; 20 d	< 13148.72 d	17.2 d	83%; 3 d
Propylene Glycol Butyl Ether	90% DOC; OECD 301 E; 28 d	-	-	90% DOC; OECD 301 E; > 70% (10 d)
Ethanolamine	> 90%; DOC; OECD 301 A; 21 d)	-	-	> 70 % (OECD 301 F; aerobic; activated sludge, domestic, non-adapted; no information provided regarding 10 d window criteria)
C9-11 Pareth-n	72 % inorg. C analysis (Guideline: ISO 14593 Water quality; 28 d)	-	-	-

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Alcohol	-0.35	
Propylene Glycol Butyl Ether	1.2	
Ethanolamine	-2.3	
Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Alcohol	-0.35 (OECD 107)	< 10
Propylene Glycol Butyl Ether	1.2	-
Ethanolamine	-2.3	9.2 L/kg
C9-11 Pareth-n	3.74	237 L/Kg

12.4. Mobility in soil

Mobility in soil

No information available.

Chemical name	log K _{oc}
Alcohol	1.585
Ethanolamine	>= 221 - <= 491 L/kg

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Alcohol	The substance is not PBT / vPvB PBT assessment does not apply
Propylene Glycol Butyl Ether	The substance is not PBT / vPvB
Ethanolamine	The substance is not PBT / vPvB PBT assessment does not apply
C9-11 Pareth-n	The substance is not PBT / vPvB
Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects No

information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations.

Contaminated packaging

Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV

20 01 29* - detergents containing dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

IMDG

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable 14.6

Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2	
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADN

14.1 UN number or ID number	Not relevant
14.2	
14.3 Transport hazard class(es)	No information available
14.4 Packing group	Not relevant
14.5 Marine pollutant	Not regulated

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Alcohol	RG 84	-
Propylene Glycol Butyl Ether	RG 84	-
Ethanolamine	RG 49, RG 49bis	-

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Alcohol	Present	-	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006) Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Propylene Glycol Butyl Ether	75.	-
Ethanolamine	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Biocides

CESIO Recommendations

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer

15.2. Chemical safety assessment

Chemical Safety Report

No chemical safety assessment has been carried out for this mixture per REACH regulation

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- H225 - Highly 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
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- 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

Legend SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Serious eye damage/eye irritation	Calculation method

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Further information Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer
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.

End of Safety Data Sheet