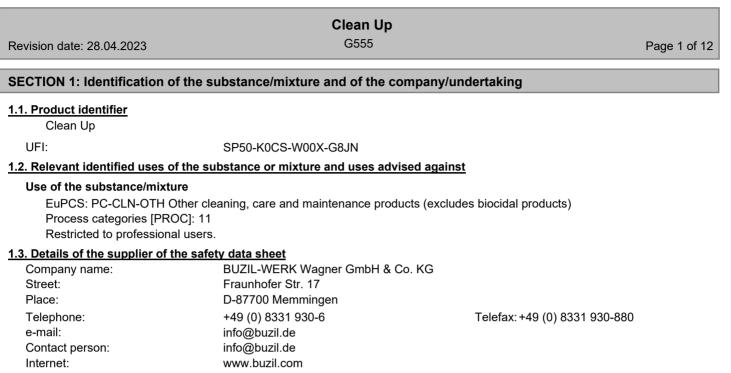
according to Regulation (EC) No 1907/2006



+49 (0) 8331 930-6 (08:00 - 16:00 h)

1.4. Emergency telephone

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2-Phenoxyethanol Signal word:

Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

· · · · · · · · · · · · · · · · · · ·	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.



according to Regulation (EC) No 1907/2006

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P310	Immediately call a POISON CENTER/doctor.	

Special labelling of certain mixtures

Contains Limonene. May produce an allergic reaction.

2.3. Other hazards

EUH208

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)	·	
64-17-5	Ethanol			30 - < 35 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H31	9		
112-34-5	2-(2-Butoxyethoxy)ethanol, Diethy	lene glycol monobutyl ether		1 - < 5 %
	203-961-6	603-096-00-8	01-2119475104-44	
	Eye Irrit. 2; H319	•		
122-99-6	2-Phenoxyethanol			1 - < 5 %
	204-589-7	603-098-00-9	01-2119488943-21	
	Acute Tox. 4, Eye Dam. 1, STOT S	SE 3; H302 H318 H335		
25307-17-9	Fatty amine polyethoxilate			1 - < 5 %
	246-807-3		01-2119510876-35	
	Acute Tox. 4, Skin Corr. 1B, Aquat	ic Acute 1, Aquatic Chronic 1;	H302 H314 H400 H410	
5989-27-5	(R)-p-Mentha-1,8-diene, d-limonene		< 1 %	
	227-813-5	601-029-00-7	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sen H315 H317 H304 H400 H410	s. 1, Asp. Tox. 1, Aquatic Acut	e 1, Aquatic Chronic 1; H226	

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	
64-17-5	200-578-6	200-578-6 Ethanol	
	inhalation: LC Eye Irrit. 2; H3	50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg 19: >= 50 - 100	
112-34-5	203-961-6	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether	1 - < 5 %
	inhalation: LC	50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
122-99-6	204-589-7	2-Phenoxyethanol	1 - < 5 %
	dermal: LD50	= >2000 mg/kg; oral: ATE 1394 mg/kg	
25307-17-9	246-807-3	Fatty amine polyethoxilate	1 - < 5 %
		50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1260 c Acute 1; H400: M=10 c 1; H410: M=1	
5989-27-5	227-813-5	(R)-p-Mentha-1,8-diene, d-limonene	< 1 %
	dermal: LD50 Aquatic Chroni	= > 5000 mg/kg; oral: LD50 = 5300 mg/kg Aquatic Acute 1; H400: M=1 c 1; H410: M=1	

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according to Regulation (EC) No 1907/2006

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Labelling for contents according to < 5 % non-ionic surfactants, per		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
General information Remove contaminated, saturate	ed clothing immediately.	
After inhalation Provide fresh air.		
After contact with skin After contact with skin, wash im Take off contaminated clothing	mediately with plenty of water and soap. and wash it before reuse.	
After contact with eyes Rinse immediately carefully and	d thoroughly with eye-bath or water.	
After ingestion Rinse mouth immediately and d Do NOT induce vomiting.	Irink plenty of water.	
4.2. Most important symptoms and e No information available.	ffects, both acute and delayed	
4.3. Indication of any immediate med Treat symptomatically.	lical attention and special treatment needed	
SECTION 5: Firefighting measure	łS	
5.1. Extinguishing media		
Suitable extinguishing media Water spray jet alcohol resistant foam Carbon dioxide Extinguishing powder		
Unsuitable extinguishing media Full water jet		
5.2. Special hazards arising from the Hazardous combustion product Carbon dioxide		

Carbon dioxide Carbon monoxide

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Emergency cooling must be provided for in case of a fire in the vicinity.

Additional information

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

Use personal protection equipment. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Ventilate affected area.

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For emergency responders		

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment

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

For cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Other information

Collect in closed and suitable containers for disposal. Ventilate affected area.

6.4. Reference to other sections

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

Avoid contact with skin, eyes and clothes. Do not mix with other chemicals. Use personal protection equipment. When using do not eat, drink or smoke. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene Take off contaminated clothing.

Wash hands before breaks and after work. When using do not eat, drink or smoke.

Further information on handling

No further relevant information available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No further relevant information available.

7.3. Specific end use(s)

Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Revision No: 4,1 - Replaces version: 4,0



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Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
25307-17-9	Fatty amine polyethoxilate			
Worker DNEL	, long-term	inhalation	systemic	1,76 mg/m³
Worker DNEL	, long-term	dermal	systemic	0,25 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	0,621 mg/m³
Consumer DN	IEL, long-term	oral	systemic	0,179 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	systemic	0,179 mg/kg bw/day

PNEC values

CAS No	Name of agent	
Environmental compartment Va		Value
25307-17-9	Fatty amine polyethoxilate	
Freshwater		0,000214 mg/l
Marine water		0,0000214 mg/l
Marine sediment 0,0171		0,0171 mg/kg
Micro-organisms in sewage treatment plants (STP) 1,5 r		1,5 mg/kg
Soil		5 mg/kg
Secondary poisoning 2 mg/kg		2 mg/kg

Additional advice on limit values

No information available.

8.2. Exposure controls





Appropriate engineering controls

No information available.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. (EN 166)

Hand protection

Wear suitable gloves. (EN 374, Breakthrough time: >10 min.) Suitable material: NBR (Nitrile rubber). Thickness of the glove material >= 0,1 mm A survey of suitable brands with detailed information on breakthrough times is available upon request.

Skin protection

Wear suitable work clothing.



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Use only in well-ventilated areas.

In case of inadequate ventilation wear respiratory protection. (EN 14387, A1)

Thermal hazards

No further relevant information available.

Environmental exposure controls

Section 6: Accidental Release Measures

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	vellow	
Odour:	Perfumes, fragrances	
Melting point/freezing point:	, 3	approx10 °C
Boiling point or initial boiling point and		> 80 °C
boiling range:		
Flammability:		Flammable.
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		30 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not applicable
pH-Value (at 20 °C):		11,0 - 11,5
Viscosity / kinematic:		not determined
(at 40 °C)		
Water solubility:		completely miscible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		not determined
Density (at 25 °C):		0,94 g/cm ³
Relative density:		not determined
Relative vapour density:		not determined
Particle characteristics:		not relevant
9.2. Other information		
Other safety characteristics		
Viscosity / dynamic:		< 10 mPa·s
(at 25 °C)		
No information available.		

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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

The product is stable under storage at normal ambient temperatures.



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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	Ethanol							
	oral	LD50 mg/kg	>2000	Rat	ATE			
	dermal	LD50 mg/kg	>2000	Rat	ATE			
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat	ATE			
112-34-5	2-(2-Butoxyethoxy)ethan	ol, Diethyle	ne glycol mor	nobutyl ether				
	oral	LD50 mg/kg	>2000	Rat	ATE			
	dermal	LD50 mg/kg	>2000	Rat	ATE			
	inhalation vapour	LC50	>20 mg/l	Rat	ATE			
122-99-6	2-Phenoxyethanol							
	oral	ATE 1394 mg/kg						
	dermal	LD50 mg/kg	>2000	Rabbit				
25307-17-9	Fatty amine polyethoxilate							
	oral	LD50 mg/kg	1260	Rat	OECD 401			
	dermal	LD50 mg/kg	>2000	Rat	ATE			
	inhalation dust/mist	LC50	>5 mg/l	Rat	ATE			
5989-27-5	(R)-p-Mentha-1,8-diene,	(R)-p-Mentha-1,8-diene, d-limonene						
	oral	LD50 mg/kg	5300	Rat	GESTIS			
	dermal	LD50 mg/kg	> 5000	Rabbit	GESTIS			

Irritation and corrosivity

Causes serious eye damage.

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

Sensitising effects

Contains Limonene. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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



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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

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
64-17-5	Ethanol								
	Acute fish toxicity	LC50 mg/l	>1000	96 h					
	Acute algae toxicity	ErC50 mg/l	>100						
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	IUCLID			
112-34-5	2-(2-Butoxyethoxy)ethance	ol, Diethylene	glycol mor	obutyl et	her				
	Acute fish toxicity	LC50 mg/l	2780	96 h	Pimephales promelas (fathead minnow)				
	Acute algae toxicity	ErC50 mg/l	> 100		Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50 mg/l	4950	48 h	Daphnia magna (Big water flea)				
122-99-6	2-Phenoxyethanol								
	Acute fish toxicity	LC50 460 mg/l	220 -	96 h	Leuciscus idus (golden orfe)				
	Acute algae toxicity	ErC50 mg/l	> 500	72 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna (Big water flea)				
25307-17-9	Fatty amine polyethoxilate								
	Acute fish toxicity	LC50	0,1 mg/l	96 h	Danio rerio (zebrafish)	OECD 203			
	Acute algae toxicity	ErC50 mg/l	0,0867	72 h		OECD 201			
	Acute crustacea toxicity	EC50 mg/l	0,043	48 h	Daphnia magna (Big water flea)	OECD 202			
	Acute bacteria toxicity	(EC50 mg/l)	128	3 h	Activated sludge	OECD 209			
5989-27-5	(R)-p-Mentha-1,8-diene, d	d-limonene							
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas (fathead minnow)	REACh Registration Dossier	OECD 203		
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna (Big water flea)	GESTIS	OECD 202		

12.2. Persistence and degradability





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The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
64-17-5	Ethanol	_					
	OECD 301	>60%	28				
	Readily biodegradable (according to OECD criteria).						
112-34-5	12-34-5 2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether						
	OECD 301	>60%	28				
	Readily biodegradable (according to OECD criteria).						
122-99-6	2-Phenoxyethanol						
	OECD 301	>60%	28				
	Readily biodegradable (according to OECD criteria).						
25307-17-9	17-9 Fatty amine polyethoxilate						
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>60%	28				
	Readily biodegradable (according to OECD criteria).						
5989-27-5	27-5 (R)-p-Mentha-1,8-diene, d-limonene						
	OECD 301B	> 60%	28				
	Readily biodegradable (according to OECD criteria).						

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	Ethanol	-0,31
112-34-5	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether	0,56
122-99-6	2-Phenoxyethanol	1,16
25307-17-9	Fatty amine polyethoxilate	3,4
5989-27-5	(R)-p-Mentha-1,8-diene, d-limonene	4,38

BCF

CAS No	Chemical name	BCF	Species	Source
25307-17-9	Fatty amine polyethoxilate	23,4		

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 REACH, annex XIII.

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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

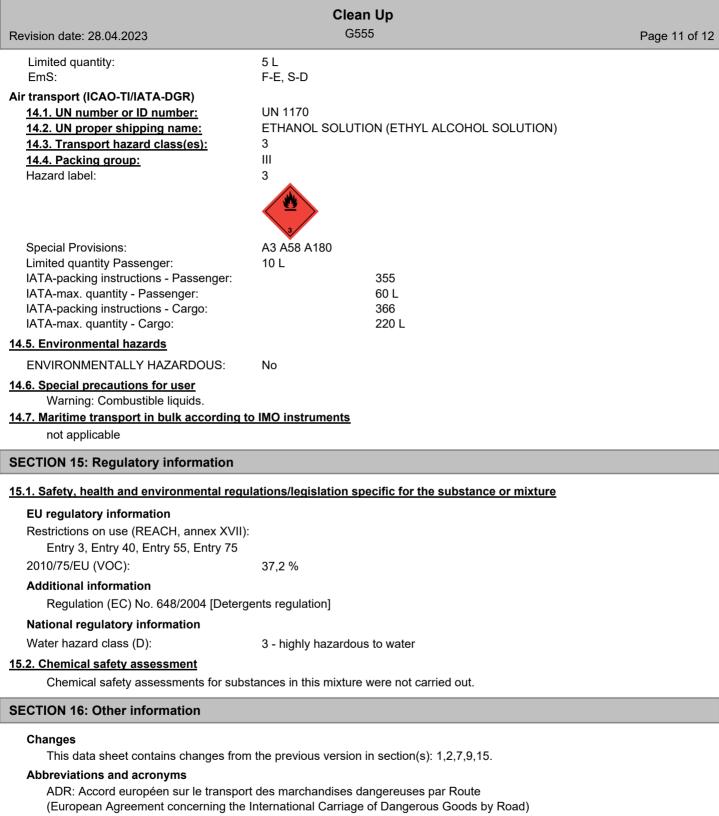
Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

according to Regulation (EC) No 1907/2006

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List of Wastes 070604		roducts C CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, tants and cosmetics; other organic solvents, washing liquids and mother				
List of Wastes 150102	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 Delivery to	I packaging an approved waste disposal	company.				
SECTION 14: T	ransport information					
14.2. UN prop	ber or ID number: er shipping name: rt hazard class(es):	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 3 III 3				
Classification of Special Provis Limited quantit Transport cate Hazard No: Tunnel restrict	ions: ty: gory:	F1 144 601 5 L 3 30 D/E				
<u>14.1. UN numb</u> 14.2. UN prop	s transport (ADN) <u>ber or ID number:</u> <u>er shipping name:</u> <u>rt hazard class(es):</u> <u>group:</u>	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 3 III 3				
Classification of Special Provision Limited quantit	ions:	F1 144 601 5 L				
<u>14.2. UN prop</u> <u>14.3. Transpo</u> <u>14.4. Packing</u> Hazard label:	ber or ID number: er shipping name: ort hazard class(es): group:	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 3 III 3				
Marine polluta Special Provis		no 144, 223				



according to Regulation (EC) No 1907/2006



IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service



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LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 13: Treatment of articles by dipping and pouring

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
EUH208	Contains Limonene. May produce an allergic reaction.

Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: 9 (1)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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