

Interflon Clean Special

Version number:
8.0
Replaces version: 7:

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

1.1 Product identifier

Trade name **Interflon Clean Special**

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

Scope lubricant

1.3 Details of the supplier of the safety data sheet

Interflon BV
Belder 47
4704 RK Roosendaal
Netherlands

Telephone: +31 (0)165 553911
e-mail: Service@Interflon.com
Website: www.Interflon.com

e-mail (competent person) msds.vn@interflon.com

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling

- Signal word. danger

- Pictograms

GHS05



- Hazard statements

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

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- Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing 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 contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Phosphoric Acid 31%, Hydrochloric Acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Isotridecanol, ethoxylated

2.3 Other hazards

This material is combustible, but will not ignite readily. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Product description

Mixture of organic acids, surface-active substances and water

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Phosphoric Acid 31%	CAS No 7664-38-2	25 – < 50	Skin Corr. 1B / H314 Eye Dam. 1 / H318	
2-butoxyethanol	CAS No 111-76-2	5 – < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	GHS-HC IOELV
Isotridecanol, ethoxylated	CAS No 9043-30-5	1 – < 5	Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS No 85536-14-7	1 – < 5	Acute Tox. 4 / H302 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	
Citric acid	CAS No 77-92-9	1 – < 5	Eye Irrit. 2 / H319	
Hydrochloric Acid	CAS No 7647-01-0	1 – < 5	Press. Gas C / H280 Met. Corr. 1 / H290 Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318	IOELV U(b)

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

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Notes

IOELV: Substance with a community indicative occupational exposure limit value

U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

Concentration limit, M-Factor, ATE

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Phosphoric Acid 31%	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	-	-	
2-butoxyethanol	-	-	11 mg/l/4h	inhalation: vapour
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	-	-	1,470 mg/kg	oral
Hydrochloric Acid	-	-	3 mg/l/4h	inhalation: vapour

Regulation 648/2004/EC on detergents

Wt%	Constituents	Weight % content (or range)
≥30%	phosphates	30 % and more
< 5 %	phosphonates anionic surfactants non-ionic surfactants	less than 5 %

Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Water mist, Fire extinguishing powder, Carbon dioxide (CO₂), Carbon dioxide (CO₂), Alcohol resistant foam

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.

- Handling of incompatible substances or mixtures

Do not mix with alkali.

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- Keep away from
Caustic solutions

Advice on general occupational hygiene

Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Conditions of storage

Store in accordance with local/regional/national/international regulations. Keep container tightly closed and in a well-ventilated place.

Managing of associated risks

- Corrosive conditions
Store in corrosive resistant container with a resistant inner liner.
- Flammability hazards
Keep in a cool place.
- Packaging compatibilities
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
not relevant

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	2-butoxyethanol	111-76-2	IOELV	20	98	50	246			H	2000/39/EC
EU	hydrogen chloride	7647-01-0	IOELV	5	8	10	15				2000/39/EC
EU	orthophosphoric acid	7664-38-2	IOELV		1		2				2000/39/EC

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
H	absorbed through the skin
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Phosphoric Acid 31%	7664-38-2	DNEL	2.92 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-butoxyethanol	111-76-2	DNEL	125 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-butoxyethanol	111-76-2	DNEL	89 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2-butoxyethanol	111-76-2	DNEL	98 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	1,091 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-butoxyethanol	111-76-2	DNEL	246 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	DNEL	7.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	DNEL	119 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrochloric Acid	7647-01-0	DNEL	8 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Hydrochloric Acid	7647-01-0	DNEL	15 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-butoxyethanol	111-76-2	PNEC	8.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	0.88 mg/l	aquatic organisms	marine water	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	463 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	0.268 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	0.027 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	3.43 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	8.1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	6.8 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl de-	85536-14-7	PNEC	35 mg/kg	terrestrial organisms	soil	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
rivs.						
Citric acid	77-92-9	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citric acid	77-92-9	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
Citric acid	77-92-9	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citric acid	77-92-9	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citric acid	77-92-9	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citric acid	77-92-9	PNEC	33.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

General safety precautions

Use only in well-ventilated areas.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection



Work with safety glasses. Use safety goggle with side protection.

Skin protection

- Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374. Wear suitable gloves. NBR: acrylonitrile-butadiene rubber.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	100 °C
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	67 °C at 1,013 hPa
Auto-ignition temperature	230 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	<1 (acid)
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	0.8 hPa at 20 °C
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Density and/or relative density

Density	1.17 – 1.23 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
2-butoxyethanol	111-76-2	inhalation: vapour	11 mg/l/4h
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	oral	1,470 mg/kg
Hydrochloric Acid	7647-01-0	inhalation: vapour	3 mg/l/4h

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting propertiesDoes not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.**12.7 Other adverse effects**

Data are not available.

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

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste (Basel Convention)

Properties of waste which render it hazardous

H8 Corrosives

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR	UN 3264
IMDG-Code	UN 3264
ICAO-TI	UN 3264

14.2 UN proper shipping name

ADR	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
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IMDG-Code	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
ICAO-TI	Corrosive liquid, acidic, inorganic, n.o.s.
Technical name (hazardous ingredients)	Phosphoric Acid 31%, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

14.3 Transport hazard class(es)

ADR	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

ADR	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Inland transport of dangerous goods

Classification code	C1
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

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EmS F-A, S-B
Stowage category B
Segregation group 1 - Acids

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

SECTION 15: Regulatory information

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

There is no additional information.

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	all ingredients are listed or exempt from listing
US	TSCA	all ingredients are listed

Legend

DSL Domestic Substances List (DSL)
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.3	e-mail (competent person): Service@interflon.com (Service lab)	e-mail (competent person): msds.vn@interflon.com	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: Phosphoric Acid 31%, Hydrogen chloride, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Iso-tridecanol, ethoxylated	- Hazardous ingredients for labelling: Phosphoric Acid 31%, Hydrochloric Acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Iso-tridecanol, ethoxylated	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Hazardous ingredients: change in the listing (table)	yes
3.2		Concentration limit, M-Factor, ATE	yes
3.2		Concentration limit, M-Factor, ATE: change in the listing (table)	yes
3.2		Regulation 648/2004/EC on detergents	yes
3.2		Regulation 648/2004/EC on detergents: change in the listing (table)	yes
3.2		Remarks: For full text of Hazard- and EU Hazard-state- ments: see SECTION 16.	yes
5.1	Suitable extinguishing media: Water spray, BC-powder, Carbon dioxide (CO ₂)	Suitable extinguishing media: Water spray, Water mist, Fire extinguishing powder, Carbon dioxide (CO ₂), Carbon dioxide (CO ₂), Alcohol resistant foam	yes
5.3	Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contam- inated firefighting water separately. Fight fire with normal precautions from a reasonable dis- tance.	Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contam- inated firefighting water separately. Fight fire with normal precautions from a reasonable dis- tance. Use suitable breathing apparatus.	yes
7.1	Advice on general occupational hygiene: Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before enter- ing eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.	Advice on general occupational hygiene: Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.	yes
7.2	- Flammability hazards: Do not expose to temperatures exceeding 50 °C/122 °F.	- Flammability hazards: Keep in a cool place.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): not relevant	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
8.2	General safety precautions: Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not eat, drink and smoke in work areas.	General safety precautions: Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding- stuffs. Do not breathe gas/vapour/spray. Wash hands after use.	yes
8.2	Eye/face protection: Use protective eyewear to guard against splash of liquids.	Eye/face protection: Work with safety glasses. Use safety goggle with side protection. eye protection must be worn	yes
8.2	Hand protection:	Hand protection:	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride.	Chemical protection gloves are suitable, which are tested according to EN 374. Wear suitable gloves. NBR: acrylonitrile-butadiene rubber.	
8.2	Respiratory protection: Not required.	Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
13.1	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.	Sewage disposal-relevant information: Do not empty into drains.	yes
13.1	Waste treatment of containers/packagings: It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	Waste treatment of containers/packagings: This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packages in the same way as the substance itself.	yes
14.1	ADR/RID/ADN	ADR	yes
14.2	ADR/RID/ADN	ADR	yes
14.3	ADR/RID/ADN	ADR	yes
14.4	ADR/RID/ADN	ADR	yes
14.7	Inland transport of dangerous goods - ADR - Additional information	Inland transport of dangerous goods	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: UN Recommendations on the Transport of Dangerous Good. Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes
16	List of relevant phrases (code and full text as stated in chapter 2 and 3)	List of relevant phrases (code and full text as stated in section 2 and 3)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

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Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
ED	Endocrine disruptor
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
Met. Corr.	Substance or mixture corrosive to metals
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

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Key literature references and sources for data

UN Recommendations on the Transport of Dangerous Good. Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H280	Contains gas under pressure; may explode if heated.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.