



Safety data sheet

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

1.1. Product identifier

Product name **FILAPURPLE OFF**

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

1.3. Details of the supplier of the safety data sheet

Name **FILA INDUSTRIA CHIMICA S.P.A.**
Full address **Via Garibaldi, 58**
District and Country **35018 San Martino di Lupari (PD)
ITALIA**

Tel. **+39.049.9467300**

Fax **+39.049.9460753**

e-mail address of the competent person
responsible for the Safety Data Sheet

sds@filasolutions.com

1.4. Emergency telephone number

For urgent inquiries refer to

**TEL +39.049.9467300 (Monday –
Friday; 8.30 - 12.30 and 14.00 - 17.30)
UNITED KINGDOM: NHS Direct 111 (In England, Scotland North Ireland) 08454647
(Wales); IRELAND 018092166**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



FILAPURPLE OFF



Signal words:

Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

Precautionary statements:

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves / clothing and eye / face protection.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER / doctor / . . .
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Contains:	SODIUM HYDROXIDE
	SODIUM HYPOCHLORITE
	POTASSIUM CARBONATE
	N,N-Dimethyltetradecylamine N-oxide

Ingredients according to Regulation (EC) No. 648/2004

Less than 5%	non-ionic surfactants, non-ionic surfactants, non-ionic surfactants
5% or over but less than 15%	chlorine-based bleaching agents, chlorine-based bleaching agents, chlorine-based bleaching agents

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients**3.1. Substances**

Information not relevant

3.2. Mixtures

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Identification**x = Conc. %****Classification 1272/2008
(CLP)**

**SODIUM HYPOCHLORITE**

CAS 7681-52-9

 $9 \leq x < 20$ Met. Corr. 1 H290, Skin Corr.
1B H314, STOT SE 3 H335,
Aquatic Acute 1 H400 M=10,
Aquatic Chronic 1 H410 M=1,
EUH031, Note B

EC 231-668-3

INDEX 017-011-00-1

Reg. no. 01-2119488154-34

POTASSIUM CARBONATE

CAS 584-08-7

 $5 \leq x < 9$ Eye Irrit. 2 H319, Skin Irrit. 2
H315, STOT SE 3 H335

EC 209-529-3

INDEX -

Reg. no. 01-2119532646-36

Sodium chlorate

CAS 7775-09-9

 $2,5 \leq x < 5$ Org. Perox A H240, Ox. Liq. 1
H271, Acute Tox. 4 H302,
Aquatic Chronic 2 H411

EC 231-887-4

INDEX 017-005-00-9

Reg. no. 01-2119474389-23

SODIUM HYDROXIDE

CAS 1310-73-2

 $2 \leq x < 5$ Met. Corr. 1 H290, Skin Corr.
1A H314

EC 215-185-5

INDEX 011-002-00-6

Reg. no. 01-2119457892-27

N,N-Dimethyltetradecylamine N-oxide

CAS 3332-27-2

 $1 \leq x < 2,5$ Acute Tox. 4 H302, Eye Dam.
1 H318, Skin Irrit. 2 H315,
Aquatic Acute 1 H400 M=1,
Aquatic Chronic 2 H411

EC 222-059-3

INDEX -

Reg. no. 01-2119949262-37

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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



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Specific information on symptoms and effects caused by the product are unknown.
For symptoms and effects caused by the contained substances, see section 11.

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

Information not available

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**FILAPURPLE OFF****6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

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

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskus julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia



SVK Slovensko
TLV-ACGIH

16 grudnia 2011r
NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
ACGIH 2016

SODIUM HYPOCHLORITE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00021	mg/l
Normal value in marine water	0,000042	mg/l
Normal value for water, intermittent release	0,00026	mg/l
Normal value of STP microorganisms	4,69	mg/l
Normal value for the food chain (secondary poisoning)	11,1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,26 mg/kg bw/d				
Inhalation	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3

Potassium carbonate**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			10 mg/m3	VND			10 mg/m3	VND
Skin			8 mg/cm2	VND			16 mg/cm2	VND

Sodium chlorate

Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	1	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	10	mg/kg
Normal value for the terrestrial compartment	3,33	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,05 mg/kg bw/d				
Inhalation					VND	5 mg/m3		
Skin							VND	3,08 mg/kg bw/d

SODIUM HYDROXIDE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	CZE	1		2	
TLV	DNK	2			
VLA	ESP	2			
HTP	FIN			2 (C)	
VLEP	FRA	2			
WEL	GBR			2	
TLV	GRC	2		2	
GVI	HRV			2	



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AK	HUN	2	2
NDS	POL	0,5	1
NPHV	SVK	2	
TLV-ACGIH			2 (C)

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Inhalation			1 mg/m3	VND			1 mg/m3	Chronic systemic VND

N,N-Dimethyltetradecylamine N-oxide

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0335	mg/l
Normal value in marine water	0,00335	mg/l
Normal value for fresh water sediment	5,24	mg/kg
Normal value for marine water sediment	0,524	mg/kg
Normal value for water, intermittent release	0,0335	mg/l
Normal value of STP microorganisms	24	mg/l
Normal value for the food chain (secondary poisoning)	11,1	mg/kg
Normal value for the terrestrial compartment	1,02	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local
Oral			VND	0,44 mg/kg bw/d			
Inhalation			VND	1,53 mg/m3		VND	6,2 mg/m3
Skin			VND	5,5 mg/kg bw/d		VND	11 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

If the product may or must come into contact or react with acids, suitable technical and/or organisational measures should be taken to prevent the development of toxic and/or inflammable gases.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**FILAPURPLE OFF****EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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

Appearance	viscous liquid
Colour	Light yellow
Odour	pungent
Odour threshold	Not available
pH	13,7
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

SECTION 10. Stability and reactivity

**FILAPURPLE OFF****10.1. Reactivity**

Information not available

10.2. Chemical stability

The product is stable if stored in original containers at temperatures lower than the self accelerated decomposition temperature (SADT).

10.3. Possibility of hazardous reactions

Information not available

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. Avoid transferring into containers that may have been contaminated with other substances. Avoid storing close to inflammable or combustible products.

SODIUM HYDROXIDE

Avoid exposure to: air,moisture,sources of heat.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the formation of explosive peroxides or other potentially hazardous substances.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.



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11.1. Information on toxicological effects**ACUTE TOXICITY**

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component)
LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component)
LD50 (Oral) of the mixture: >2000 mg/kg
LD50 (Dermal) of the mixture: Not classified (no significant component)

Potassium carbonate
LC50 (Inhalation) > 4,96 mg/l/4h rat

SODIUM HYDROXIDE
LD50 (Oral) 1350 mg/kg Rat
LD50 (Dermal) 1350 mg/kg Rat

SODIUM HYPOCHLORITE
LD50 (Oral) > 5000 mg/kg Rat
LD50 (Dermal) > 10000 mg/kg Rabbit

N,N-Dimethyltetradecylamine N-oxide
LD50 (Oral) 1064 mg/kg rat

Sodium chlorate
LD50 (Oral) > 5000 mg/kg rat
LD50 (Dermal) > 2000 mg/kg rabbit

SKIN CORROSION / IRRITATION Corrosive for the skin
SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage
RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class
GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class
CARCINOGENICITY Does not meet the classification criteria for this hazard class
REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class
STOT - SINGLE EXPOSURE May cause respiratory irritation
STOT - REPEATED EXPOSURE Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD Does not meet the classification criteria for this hazard class **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

Potassium carbonate
LC50 - for Fish 68 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea 200 mg/l/48h Daphnia pulex
Chronic NOEC for Fish 33 mg/l Oncorhynchus mykiss

SODIUM HYPOCHLORITE
LC50 - for Fish 0,059 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea 0,04 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants 46 mg/l/72h Gracilaria tenuistipitata
Chronic NOEC for Fish 0,04 mg/l

N,N-Dimethyltetradecylamine N-oxide



LC50 - for Fish	2,67 mg/l/96h Pimephales promelas
EC50 - for Crustacea	3,1 mg/l/48h Daphnia Magna
EC50 - for Algae / Aquatic Plants	0,19 mg/l/72h Pseudokirchnerella subcapitata

Sodium chlorate	
LC50 - for Fish	> 1000 mg/l/96h rainbow trout
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	> 1000 mg/l Skeletonema costatum

12.2. Persistence and degradability

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

SODIUM HYPOCHLORITE

Solubility in water 1000 - 10000 mg/l

N,N-Dimethyltetradecylamine N-oxide
Rapidly degradable

12.3. Bioaccumulative potential

SODIUM HYPOCHLORITE

Partition coefficient: n-octanol/water -3,42

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations



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13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number**

ADR / RID, IMDG, 1791
IATA:

14.2. UN proper shipping name

ADR / RID: HYPOCHLORITE
SOLUTION
IMDG: HYPOCHLORITE
SOLUTION
IATA: HYPOCHLORITE
SOLUTION

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

**14.4. Packing group**

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80

Limited
Quantities: 5
L

Tunnel
restriction
code: (E)

Special Provision: -

IMDG: EMS: F-A, S-B

Limited
Quantities: 5



IATA:	Cargo:	L Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special Instructions:	A3, A803	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Product</u>	
Point	3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

Sodium chlorate - (CHLORATE)

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004



The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

SODIUM HYPOCHLORITE

POTASSIUM CARBONATE

SODIUM HYDROXIDE

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Org. Perox A	Organic peroxide, category A
Ox. Liq. 1	Oxidising liquid, category 1
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H240	Heating may cause an explosion.
H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

LEGEND:



- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

02 / 14 / 15.