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TETENAL

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AgfaPhoto 94 CD-LR Colour Developer Replenisher 1-Part monoline RA-4 CD-R SP160 Colour Developer Replenisher 1-Part Formula Article number: 104513, 104512 Index number: None of the ingredients is listed. UFI: N6N0-400V-Y008-9T25 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Developer for photographic use 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: TETENAL 1847 GmbH Schützenwall 31-35 D-22844 Norderstedt /Germany Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296 www.tetenal.com; E-mail: info@tetenal.com TETENAL 1847 GmbH	1.1 Product identifier	
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SECTION 2: Hazards identification

	n of the substance or mixture cording to Regulation (EC) No 1272/2008	
Acute Tox. 4	H302 Harmful if swallowed.	
Skin Irrit. 2	H315 Causes skin irritation.	
Eye Dam. 1	H318 Causes serious eye damage.	
Skin Sens. 1	H317 May cause an allergic skin reaction.	
Aquatic Chronic	2 H411 Toxic to aquatic life with long lasting effects.	
	ling to Regulation (EC) No 1272/2008 assified and labelled according to the CLP regulation. ms	
. Signal word Dar	ger	
diethylene glycol N-(2-(4-amino-N	ning components of labelling: -ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3) lenediaminetetraacetate	(Contd. on page 2)

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. Hazard stateme	ents
H302 Harmful if	f swallowed.
H315 Causes ski	in irritation.
H318 Causes ser	rious eye damage.
H317 May cause	e an allergic skin reaction.
H411 Toxic to a	quatic life with long lasting effects.
. Precautionary s	statements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P33	38 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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulations.
. 2.3 Other hazar	
. Results of PBT	and vPvB assessment
. PBT: Not applic	cable.
. vPvB: Not appli	

SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterisation: Mixtures

. Description: Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:

*

. Dangerous components:		
CAS: 111-46-6	diethylene glycol	25-50%
EINECS: 203-872-2	Acute Tox. 4, H302	
Index number: 603-140-00-6		
Reg.nr.: 01-2119457857-21		10 -0.50/
CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate	10-<25%
Reg.nr.: 01-2119532646-36	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 25646-71-3 EINECS: 247-161-5	N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)	e 1-5%
Index number: 612-134-00-2 Reg.nr.: 01-2120794432-50-0001	Acute Tox. 3, H301; 🔅 Eye Dam. 1, H318; 🕹 Aquatic Chronic 1, H410; 🏠 Skin Sens. 1, H317	
CAS: 3710-84-7	N,N-diethylhydroxylamine (DEHA)	1-5%
EINECS: 223-055-4 Reg.nr.: 01-2119962470-39	♦ Flam. Liq. 3, H226; ♦ Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate	1-5%
EINECS: 200-573-9	📀 Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302	
Index number: 607-428-00-2		
Reg.nr.: 01-2119486762-27-xxxx		<10/
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide	<1%
Index number: 019-002-00-8	Met. Corr.1, H290; Skin Corr. 1A, H314; () Acute Tox. 4, H302	
Reg.nr.: 01-2119487136-33	(Cont	d on page 3)

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. Not hazardous components:

CAS: 7732-18-5 water

EINECS: 231-791-2

. Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. General information:

Immediately remove any clothing/shoes soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- . After skin contact: Immediately wash with water and soap and rinse thoroughly.
- . After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . After swallowing:

Do not induce vomiting; call for medical help immediately.

- Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Rinse mouth.
- . 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- . 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

. 5.1 Extinguishing media

. Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- . 5.2 Special hazards arising from the substance or mixture
- Nitrogen oxides (NOx)

Carbon monoxide (CO) Sulphur dioxide (SO2)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

. 5.3 Advice for firefighters

. Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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25-50%

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. 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

. 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- . Information about fire and explosion protection: No special measures required.
- . 7.2 Conditions for safe storage, including any incompatibilities
- . Storage:
- . Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- . **Information about storage in one common storage facility:** Store away from foodstuffs.
- Store away from oxidising agents.
- Further information about storage conditions:
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Protect from exposure to the light.

Store under lock and key and out of the reach of children.

- Recommended storage temperature: 5-30°C
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

. 8.1 Control parameters

. Additional information about design of technical facilities: No further data; see item 7.

. Ingredients with limit values that require monitoring at the workplace:

111-46-6 diethylene glycol (25-50%)

WEL (Great Britain) Long-term value: 101 mg/m³, 23 ppm

WEEL (USA) Long-term value: 10 mg/m³

3710-84-7 N,N-diethylhydroxylamine (DEHA) (1-5%)

TLV (USA) Long-term value: 7.3 mg/m³, 2 ppm

1310-58-3 potassium hydroxide (<1%)

WEL (Great Britain) Short-term value: 2 mg/m³

DEL (USA)	Cailing limit: 2 mg/m ³
REL (USA)	Ceiling limit: 2 mg/m ³

- TLV (USA) Ceiling limit: 2 mg/m³
- <u>DNE</u>Ls

111-46-6 diethylene glycol

Dermal	Long-term - systemic - effects	43 mg/kg bw/day (Worker (Arbeiter))
	Long-term - systemic effects (dynamic)	21 mg/kg bw/day (general population- Verbraucher)
Inhalativ	e Long-term - local - effects	60 mg/m ³ (Worker (Arbeiter))
	Long-term - systemic effects	12 mg/m ³ (Consumer (Verbraucher))
	Long-term- systemics effects	44 mg/m ³ (Worker (Arbeiter))
3710-84-	-7 N,N-diethylhydroxylamine (DEHA)	
Oral	Long-term - systemic effects	0.13 mg/kg bw/day (Consumer (Verbraucher))
Dermal	Long-term - systemic - effects	0.26 mg/kg bw/day (Worker (Arbeiter))
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Akute- systemic - effects	4.7 mg/kg bw/day (Worker (Arbeiter))
Inhalative Akute /short-term exposure - local effects	
Long-term exposure-local effects	3.65 mg/m ³ (Worker (Arbeiter))
Long-term - local effects	0.65 mg/m ³ (general population- Verbraucher)
Akute - local systemic	2.92 mg/m ³ (Worker (Arbeiter))
Long-term - systemic-effects	3.65 mg/m ³ (Worker (Arbeiter))
1310-58-3 potassium hydroxide	
Inhalative Long-term - local - effects	1 mg/m ³ (Worker (Arbeiter))
Long-term - systemic effects PNECs	1 mg/m ³ (general population)
111-46-6 diethylene glycol	
Aquatic compartment - freshwater	10 mg/l (-)
Aquatic compartment - marine water	1 mg/l (-)
Aquatic compartment -water, intermittent releases	10 mg/l (-)
Aquatic compartment -sediment in freshwater	20.9 mg/kg sed dw (-)
Terrestrial compartment -soil	1.53 mg/kg dw (-)
Sewage treatment plant (Abwasserreinigungsanlage	
3710-84-7 N,N-diethylhydroxylamine (DEHA)	
Aquatic compartment - freshwater	0.0082 mg/l (-)
Aquatic compartment - marine water	0.00082 mg/l (-)
Aquatic compartment -water, intermittent releases	0.082 mg/l (-)
Aquatic compartment -sediment in freshwater	0.0652 mg/kg sed dw (-)
Aquatic compartment -sediment in marine water	0.00652 mg/kg sed dw (-)
Terrestrial compartment -soil	0.0082 mg/kg dw (-)
Sewage treatment plant (Abwasserreinigungsanlage	
Additional information: The lists valid during the	
8.2 Exposure controls	
Personal protective equipment:	
General protective and hygienic measures: The usual precautionary measures are to be adhered	to when handling chemicals
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clo	othing
Wash hands before breaks and at the end of work.	
Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.	
Respiratory protection:	
In case of brief exposure or low pollution use respi	ratory filter device. In case of intensive or longer exposu
use self-contained respiratory protective device.	
Ensure adequate ventilation Protection of hands:	
Protective gloves	
Impervious gloves	
The glove material has to be impermeable and resis	
	the penetration times, rates of diffusion and the degradation
Material of gloves	

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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(Contd. of page 5) application. Butyl rubber, BR Nitrile rubber, NBR Neoprene gloves Penetration time of glove material breakthroug-time laver thickness Gove material ≥0.4mm Butyl rubber: ≥480 min ≥0.38mm Nitrile rubber: ≥480 min Neoprene: ≥240 min ≥0.65mm The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. . Eye protection:



Tightly sealed goggles

. Body protection: Protective work clothing

SECTION 9: Physical and chemical properties . 9.1 Information on basic physical and chemical properties . General Information . Appearance: Form: Fluid **Colour:** Light orange colour . Odour: Fruit-like . Odour threshold: Not determined. . pH-value: Not determined. . Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined. . Flash point: Not applicable. . Flammability (solid, gas): Not applicable. Not determined. . Decomposition temperature: Auto-ignition temperature: Product is not selfigniting. Product does not present an explosion hazard. . Explosive properties: . Explosion limits: Not determined. Lower: Not determined. **Upper:** Not determined. . Vapour pressure: 1.56 g/cm³ . Density at 20 °C: Not determined. . Relative density . Vapour density Not determined. . Evaporation rate Not determined. . Solubility in / Miscibility with Fully miscible. water: . Partition coefficient: n-octanol/water: Not determined. (Contd. on page 7)

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. Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
. Solvent content:		
Organic solvents:	42.7 %	
Water:	32.7 %	
VOC (EC)	38.77 %	
Solids content:	0.0 %	
. 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: Stable at environment temperature.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . 10.6 Hazardous decomposition products:
- Irritant gases/vapours

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

. 11.1 Information on toxicological effects

. Acute toxicity

Harmful if swallowed. . LD/LC50 values relevant for classification:

111-46-6 diethylene glycol

Oral LD50 12,565 mg/kg (rat)

584-08-7 potassium carbonate

Oral LD50 >2,000 mg/kg (rat)

25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

Oral LD50 >75 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

3710-84-7 N,N-diethylhydroxylamine (DEHA)

Oral LD50 2,190 mg/kg (rat)

Dermal LD50 1,300 mg/kg (rabbit)

Inhalative LC50 4 mg/l (rat)

64-02-8 Tetrasodium ethylenediaminetetraacetate

Oral LD50 1,780 mg/kg (rat) (OECD guideline 401) Inhalative LC50 >1-5 mg/l (rat) (OECD guideline 412)

1310-58-3 potassium hydroxide

Oral LD50 333 mg/kg (rat)

. Primary irritant effect:

. Skin corrosion/irritation

Causes skin irritation.

. Serious eye damage/irritation

Causes serious eye damage.

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. Respiratory o	r skin s	sensitisation
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- May cause an allergic skin reaction.
- . Additional toxicological information:
- . Acute effects (acute toxicity, irritation and corrosivity)
- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

Irritant

- . CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- . Germ cell mutagenicity Based on available data, the classification criteria are not met.
- . Carcinogenicity Based on available data, the classification criteria are not met.
- . Reproductive toxicity Based on available data, the classification criteria are not met.
- . STOT-single exposure Based on available data, the classification criteria are not met.
- . **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.

SECTION 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

111-46-6 diethylene glycol

EC50 24 mg/l (daphnia magna (Water flea))

LC50 96 mg/l (Invertebrates)

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25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)
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LC50 96 mg/l (fish: Pimephales promelas)

3710-84-7 N,N-diethylhydroxylamine (DEHA)

EC50 48 mg/l (daphnia magna (Water flea))

96 mg/l (fish: Pimephales promelas) (OECD 203)

LC50 96 mg/l (fish: Pimephales promelas)

64-02-8 Tetrasodium ethylenediaminetetraacetate

EC50 140 mg/l (daphnia magna (Water flea)) (DIN 38412)

LC50 >100 mg/l (fish)

1310-58-3 potassium hydroxide

LC50 96 mg/l (fish: Gambusia affinis)

24 mg/l (fish: Poecilia reticulata)

- . 12.2 Persistence and degradability No further relevant information available.
- . 12.3 Bioaccumulative potential No further relevant information available.

. 12.4 Mobility in soil No further relevant information available.

- . Ecotoxical effects:
- . Remark: Toxic for fish
- . Additional ecological information:
- . General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

- . 12.5 Results of PBT and vPvB assessment
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

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. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

. 13.1 Waste treatment methods

. Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

. European waste catalogue

09 00 00 WASTES FROM THE PHOTOGRAPHIC INDUSTRY

09 01 00 wastes from the photographic industry

09 01 01* water-based developer and activator solutions

. Uncleaned packaging:

. Recommendation: Disposal must be made according to official regulations.

. Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number ADR, IMDG, IATA	UN1814
14.2 UN proper shipping name ADR	1814 POTASSIUM HYDROXIDE SOLUTION ENVIRONMENTALLY HAZARDOUS
IMDG	POTASSIUM HYDROXIDE SOLUTION, MARINI POLLUTANT
ΙΑΤΑ	POTASSIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	8 (C9) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances p-phenylenediamine derivative CD-3
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A SG35 Stow "separated from" SGG1-acids
Segregation Code	1
14.7 Transport in bulk according to Annex II o Marpol and the IBC Code	f Not applicable.
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. Transport/Additional information:	
. ADR	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
. Transport category	3
. Tunnel restriction code	E
. IMDG	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
. UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8,
	III, ENVIRONMENTALLY HAZARDOUS

. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture . Labelling according to Regulation (EC) No 1272/2008 GHS label elements

. Directive 2012/18/EU

. Named dangerous substances - ANNEX I None of the ingredients is listed.

. Seveso category E2 Hazardous to the Aquatic Environment

. Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

. <u>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and</u> electronic equipment – Annex II

None of the ingredients is listed.

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

. Contact: E: sida@tetenal.com

. Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3	(Contd. of page 10)
Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
. * Data compared to the previous version altered.	
. " Data compareu to the previous version altereu.	EN