

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

1.1 Product identifier

Trade name: **RA-4 CD-SLR SP60**
Single Part Super Low Rate

Article number: 102578, 102577, 102581

Index number:

None of the ingredients is listed.

UFI: 1331-30U6-K00F-F3FM

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

Further information obtainable from: Department product safety. E-Mail: sida@tetenal.com

1.4 Emergency telephone number:

Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

diethylene glycol

N-[2-[(4-amino-m-tolyl)ethylamino]ethyl]methanesulphonamide (CD-3 base)

potassium hydroxide

Hazard statements

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P234 Keep only in original packaging.

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P260	Do not breathe dusts or mists.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in a corrosion resistant container / container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

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

Dangerous components:

CAS: 111-46-6	diethylene glycol	25-50%
EINECS: 203-872-2	⚠ Acute Tox. 4, H302	
Index number: 603-140-00-6		
CAS: 584-08-7	potassium carbonate	10-<25%
EINECS: 209-529-3	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119532646-36		
CAS: 92-09-1	N-[2-[(4-amino-m-tolyl)ethylamino]ethyl]methanesulphonamide	1-5%
EINECS: 202-124-2	(CD-3 base)	
Reg.nr.: 01-2120800406-66-0000	⚠ Acute Tox. 3, H301; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	
CAS: 5964-35-2	Tetrapotassium ethylenediaminetetraacetate	1-5%
EINECS: 227-743-5	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 1310-58-3	potassium hydroxide	1-5%
EINECS: 215-181-3	⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	
Index number: 019-002-00-8		
Reg.nr.: 01-2119487136-33		
CAS: 3710-84-7	N,N-diethylhydroxylamine (DEHA)	1-5%
EINECS: 223-055-4	⚠ Flam. Liq. 3, H226; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	
Reg.nr.: 01-2119962470-39		

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

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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. Then 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.

Information for doctor:

Links for hazardous substances data: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>

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 (NO_x)

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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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

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

8.1 Control parameters

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

1310-58-3 potassium hydroxide (1-5%)

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

REL (USA) Ceiling limit: 2 mg/m³

TLV (USA) Ceiling limit: 2 mg/m³

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

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

DNELs

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)
Inhalative	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))

1310-58-3 potassium hydroxide

Inhalative	Long-term - local - effects	1 mg/m ³ (Worker (Arbeiter))
	Long-term - systemic effects	1 mg/m ³ (general population)

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

Oral	Long-term - systemic effects	0.13 mg/kg bw/day (Consumer (Verbraucher))
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Dermal	Long-term - systemic - effects	0.26 mg/kg bw/day (Worker (Arbeiter))
	Akute- systemic - effects	4.7 mg/kg bw/day (Worker (Arbeiter))
Inhalative	Akute /short-term exposure - local effects	45.6 mg/m ³ (Worker (Arbeiter))
	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))

PNECs

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 (Abwasserreinigungsanlagen)	199.5 mg/l (-)

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 (Abwasserreinigungsanlagen)	10 mg/l (-)

Additional information: The lists valid during the making were used as basis.

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 clothing

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:

required at the appearance from fumes/vapours/aerosol. Filter ABEK

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Ensure adequate ventilation

Protection of hands:



Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of 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 application.

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Butyl rubber, BR
 Nitrile rubber, NBR
 Neoprene gloves

. Penetration time of glove material

Glove material	breakthroug-time	layer thickness
Butyl rubber:	≥480 min	≥0,4mm
Nitrile rubber:	≥480 min	≥0,38mm
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:	Amine-like
. Odour threshold:	Not determined.

. pH-value at 20 °C: ~14

. Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

. Flash point: Not applicable.

. Flammability (solid, gas): Not applicable.

. Ignition temperature: 230 °C

. Decomposition temperature: Not determined.

. Auto-ignition temperature: Product is not selfigniting.

. Explosive properties: Product does not present an explosion hazard.

. Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

. Vapour pressure: Not determined.

. Density at 20 °C: ~1.22 g/cm³

. Relative density Not determined.

. Vapour density Not determined.

. Evaporation rate Not determined.

. Solubility in / Miscibility with water:

Fully miscible.

. Partition coefficient: n-octanol/water: Not determined.

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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	42.0 %
Water:	25-50 %
VOC (EC)	40.15 %
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)
- 92-09-1 N-[2-[(4-amino-m-tolyl)ethylamino]ethyl]methanesulphonamide (CD-3 base)**
Oral LD50 <300 mg/kg /bw (rat) (OECD guideline 401)
- 1310-58-3 potassium hydroxide**
Oral LD50 333 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)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- . **Serious eye damage/irritation**
Causes serious eye damage.
- . **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- . **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:

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Harmful
 Corrosive
 Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- . **CMR effects (carcinogenicity, 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)

92-09-1 N-[2-[(4-amino-m-tolyl)ethylamino]ethyl]methanesulphonamide (CD-3 base)

EC50 >4 mg/l /7 d (fresh water)

3.2 mg/l /48 h (Invertebrates) (OECD test guideline 202)

1310-58-3 potassium hydroxide

LC50 96 mg/l (fish: Gambusia affinis)

24 mg/l (fish: Poecilia reticulata)

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)

. **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.

. **Ecotoxicological effects:**

. **Remark:** Toxic for fish

. **Additional ecological information:**

. **General notes:**

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

. **12.6 Other adverse effects** No further relevant information available.

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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.

SECTION 14: Transport information

. 14.1 UN-Number

. ADR, IMDG, IATA UN3267

. 14.2 UN proper shipping name

. ADR 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(POTASSIUM HYDROXIDE)

. IMDG, IATA CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(POTASSIUM HYDROXIDE)

. 14.3 Transport hazard class(es)

. ADR

. Class 8 (C7) Corrosive substances.

. Label

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. IMDG, IATA

. Class 8 Corrosive substances.

. Label

8

. 14.4 Packing group

. ADR, IMDG, IATA II

. 14.5 Environmental hazards:

Not applicable.

. 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 B

. Stowage Code SW2 Clear of living quarters.

. Segregation Code SG35 Stow "separated from" SGG1-acids

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

Not applicable.

. Transport/Additional information:

. ADR

. Limited quantities (LQ) 1L

. Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

. Transport category

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. Tunnel restriction code	E
. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. UN "Model Regulation":	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POTASSIUM HYDROXIDE), 8, II

SECTION 15: Regulatory information

- . **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.
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . **National regulations:**
- . **Regulation (EC) No 648/2004 on detergents / Labelling for contents**
 phosphonates <5%
- . **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.
 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.
- . **Contact:** E: sida@tetenal.com
- . **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport 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
 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

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 3: Acute toxicity - oral – Category 3
Acute Tox. 4: Acute toxicity - oral – 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
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.**

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