Safety data sheet
according to 1907/2006/EC, Article 31

TETENAL

Printing date 04.02.2021 version no: 3 Revision: 04.02.2021

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

. **1.1 Product identifier**

. **Trade name:** **NEOTENAL LIQUID**

. **Article number:** 102176

. **Index number:**

None of the ingredients is listed.

. **UFI:** J6K1-60A2-G00J-V60Y

. **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

. **2.2 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 GHS08 GHS09

. **Signal word** Danger

. **Hazard-determining components of labelling:**

diethanolamine
hydroquinone
Diethylenetriamine pentaacetic acid (DTPA)
4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)

. **Hazard statements**

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.

. **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.
P405	Store locked up.
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: 111-42-2 EINECS: 203-868-0 Index number: 603-071-00-1 Reg.nr.: 01-2119488930-28	diethanolamine STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	1-5%
CAS: 67-43-6 EINECS: 200-652-8 Index number: 607-735-00-1 Reg.nr.: 01-2119497281-34	Diethylenetriamine pentaacetic acid (DTPA) STOT RE 2, H373; Acute Tox. 4, H332; Eye Irrit. 2, H319	1-5%
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6	diethylene glycol Acute Tox. 4, H302	1-5%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 Reg.nr.: 01-2119524016-51	hydroquinone Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Acute Tox. 4, H302; Skin Sens. 1, H317	1-5%
CAS: 13047-13-7 EINECS: 235-920-3	4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP) Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	<1%

. **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.
. **After inhalation:** Supply fresh air; consult doctor in case of complaints.
. **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:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
. **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.

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SECTION 5: Firefighting measures

. **5.1 Extinguishing media**
. **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
. **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**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
. **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.
. **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.
. **Information about fire - and explosion protection:** Protect from heat.

. **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:**
Do not store together with acids.
Store away from foodstuffs.
Store away from oxidising agents.
. **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
Store under lock and key and out of the reach of children.
Recommended storage temperature: 5-30°C
Protect from exposure to the light.
. **7.3 Specific end use(s)** No further relevant information available.

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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:**

111-42-2 diethanolamine (1-5%)

REL (USA)	Long-term value: 15 mg/m³, 3 ppm
TLV (USA)	Long-term value: 1* mg/m³, 0.2* ppm Skin; *inhalable fraction and vapor

111-46-6 diethylene glycol (1-5%)

WEL (Great Britain)	Long-term value: 101 mg/m³, 23 ppm
WEEL (USA)	Long-term value: 10 mg/m³

123-31-9 hydroquinone (1-5%)

WEL (Great Britain)	Long-term value: 0.5 mg/m³
PEL (USA)	Long-term value: 2 mg/m³
REL (USA)	Ceiling limit: 2* mg/m³ *15-min
TLV (USA)	Long-term value: 1 mg/m³ DSEN

. **DNELs**

67-43-6 Diethylenetriamine pentaacetic acid (DTPA)

Oral	Akute - systemic effects, general population	0.9 mg/kg bw/day (-)
Dermal	Long-term - systemic - effects	9219 mg/kg bw/day (wkd)
	Long-term - systemic effects	4609 mg/kg bw/day (wkd)
Inhalative	Long-term - local - effects	4.5 mg/m³ (wkd)
	Akute-lokale Effekte	2.9 mg/m³ (-)
	Long-term - systemic effects	0.8 mg/m³ (-)

111-46-6 diethylene glycol

Dermal	Long-term - systemic - effects	43 mg/kg bw/day (-)
	Long-term - systemic effects (dynamic)	21 mg/kg bw/day (general population- Verbraucher)
Inhalative	Long-term - local - effects	60 mg/m³ (Worker (Arbeiter))
	Long-term - systemic effects	12 mg/m³ (-)
	Long-term- systemics effects	44 mg/m³ (Worker (Arbeiter))

123-31-9 hydroquinone

Dermal	Long-term - systemic - effects	128 mg/kg bw/day (wkd)
	Long-term - systemic effects	64 mg/kg bw/day (wkd)
Inhalative	Long-term exposure-local effects	7 mg/m³ (wkd)
	Long-term - local - effects	1 mg/m³ (wkd)
	Long-term - systemic effects	1.74 mg/m³ (wkd)
	Long-term - local effects	0.5 mg/m³ (wkd)

. **PNECs**

67-43-6 Diethylenetriamine pentaacetic acid (DTPA)

Aquatic compartment - freshwater	5 mg/l (-)
Aquatic compartment - marine water	0.5 mg/l (-)
Aquatic compartment -water,intermittent releases	2.45 mg/l (-)
Aquatic compartment -sediment in freshwater	18 mg/kg sed dw (-)
Terrestrial compartment -soil	0.667 mg/kg dw (-)
Sewage treatment plant (Abwasserreinigungsanlagen)	50 mg/l (-)

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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 (-)

123-31-9 hydroquinone

Aquatic compartment - freshwater	0.000114 mg/l (Water)
Aquatic compartment - marine water	0.000114 mg/l (Water)
Aquatic compartment -water,intermittent releases	0.00134 mg/l (Water)
Aquatic compartment -sediment in freshwater	0.00098 mg/kg sed dw (Water)
Aquatic compartment -sediment in marine water	0.000097 mg/kg sed dw (Water)
Terrestrial compartment -soil	0.000129 mg/kg dw (Soil)
Sewage treatment plant (Abwasserreinigungsanlagen)	0.71 mg/l (Sewage Treatment Plant)

. **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.
Avoid contact with the eyes and skin.
. **Respiratory protection:** 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.
Butyl rubber, BR
Nitrile rubber, NBR
Neoprene gloves
. **Penetration time of glove material**

Gove 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.
Glove material: Neopren with breakthrough time: >240 min, layer thickness: >0,65 mm

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. **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 yellow
. **Odour:**	Odourless
. **Odour threshold:**	Not determined.
. **pH-value at 20 °C:**	~9
. **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 100 °C
. **Flash point:**	Not applicable.
. **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:**	~1.28 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.
. **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
. **Solvent content:**	
Organic solvents:	3.5 %
Water:	>50 %
VOC (EC)	8.07 %
. **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

. **10.1 Reactivity** No further relevant information available.

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. **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.
Reacts with acids releasing sulphur dioxide.
. **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** Based on available data, the classification criteria are not met.
. **LD/LC50 values relevant for classification:**

111-42-2 diethanolamine

Oral	LD50 1600 mg/kg (rat)
Dermal	LD50 12200 mg/kg (rabbit)

67-43-6 Diethylenetriamine pentaacetic acid (DTPA)

Oral	LD50 >5000 mg/kg (rat)
Dermal	LD50 >2000 mg/kg (rat)
Inhalative	LC50 4h: 1-5 mg/l (rat)

111-46-6 diethylene glycol

Oral	LD50 12565 mg/kg (rat)

123-31-9 hydroquinone

Oral	LD50 302 mg/kg (rat)
Dermal	LD50 >2000 mg/kg (rabbit)

13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)

Oral	LD50 566 mg/kg (rat)

. **Primary irritant effect:**
. **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
. **Serious eye damage/irritation**
Causes serious eye damage.
. **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
. **Additional toxicological information:**
. **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
. **Germ cell mutagenicity**
Suspected of causing genetic defects.
. **Carcinogenicity**
Suspected of causing cancer.
. **Reproductive toxicity**
Suspected of damaging fertility or the unborn child.
. **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.

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SECTION 12: Ecological information

. **12.1 Toxicity**
. **Aquatic toxicity:**

111-42-2 diethanolamine
LC50 133-140 mg/l (daphnia magna (Water flea))
500- <5000 mg/l (fish)

67-43-6 Diethylenetriamine pentaacetic acid (DTPA)
LC50 96h: >100 mg/l (Leuciscus leuciscus (Karpfenfisch))
96h: >674 mg/l (fish: Oncorhynchus mykiss)

111-46-6 diethylene glycol
EC50 24h: >1000 mg/l (daphnia magna (Water flea))
LC50 96h: >32000 mg/l (Invertebrates)

123-31-9 hydroquinone
EC50 48h: 0.29 mg/l (daphnia magna (Water flea))
LC50 96h: 0.044 mg/l (fish: Pimephales promelas)

13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP)
LC50 1-10 mg/l (fish)

. **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:** Very toxic for fish
. **Additional ecological information:**
. **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Danger to drinking water if even extremely small quantities leak into the ground.
. **12.5 Results of PBT and vPvB assessment**
. **PBT:** Not applicable.
. **vPvB:** Not applicable.
. **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.

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SECTION 14: Transport information

. **14.1 UN-Number**	
. **ADR, IMDG, IATA**	UN3082
. **14.2 UN proper shipping name**	
. **ADR**	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone, 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one (HMP))
. **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone), MARINE POLLUTANT
. **IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone)
. **14.3 Transport hazard class(es)**	
. **ADR**	
. **Class**	9 (M6) Miscellaneous dangerous substances and articles.
. **Label**	9
. **IMDG, IATA**	
. **Class**	9 Miscellaneous dangerous substances and articles.
. **Label**	9
. **14.4 Packing group**	
. **ADR, IMDG, IATA**	III
. **14.5 Environmental hazards:**	
. **Marine pollutant:**	Yes Symbol (fish and tree)
. **Special marking (ADR):**	Symbol (fish and tree)
. **Special marking (IATA):**	Symbol (fish and tree)
. **14.6 Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
. **Hazard identification number (Kemler code):**	90
. **EMS Number:**	F-A,S-F
. **Stowage Category**	A
. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
. **Transport/Additional information:**	Due to special provision 375 ADR and chapter 2.10.2. IMDG this item does not need to be labeled as dangerous goods.
. **ADR**	
. **Limited quantities (LQ)**	SV375
. **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**	
. **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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. **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROQUINONE, 4-(HYDROXYMETHYL)-4-METHYL-1-PHENYLPYRAZOLIDIN-3-ONE (HMP)), 9, III

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

. **Directive 2012/18/EU**
. **Named dangerous substances - ANNEX I** None of the ingredients is listed.
. **Seveso category** E1 Hazardous to the Aquatic Environment
. **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
. **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
. **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
. **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and 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**
H302 Harmful if swallowed.
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.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

. **Contact:** E: sida@tetenal.com

. **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
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
Acute Tox. 4: Acute toxicity - oral – Category 4
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
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2