

Safety data sheet

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

Printing date 11.03.2015

according to 1907/2006/EC, Article 31 version no: 2

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. 1.1 Product identifier . Trade name: EUKOBROM . Article number: 100294 . 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 Black and white developer for photographic use . 1.3 Details of the supplier of the safety data sheet . Manufacturer/Supplier: TETENAL Europe GmbH Schützenwall 31-35 D-22844 Norderstedt / Germany Phone: ++49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296 www.tetenal.com; E-Mail: info@tetenal.com TETENAL Ltd., 2 Meridian West, Meridian Business Park, Leicester LE19 1WX Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.com . Further information obtainable from: Department environment and safety. E-Mail: info@tetenal.com . 1.4 Emergency telephone number: Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790 **SECTION 2: Hazards identification** . 2.1 Classification of the substance or mixture . Classification according to Regulation (EC) No 1272/2008 GHS08 H341 Suspected of causing genetic defects. Muta. 2 H351 Suspected of causing cancer. Carc. 2 GHS05 Eye Dam. 1 H318 Causes serious eye damage. GHS09 Aquatic Acute 1 H400 Very toxic to aquatic life. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful Limited evidence of a carcinogenic effect. Possible risk of irreversible effects. R40-68: (Contd. on page 2)

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Xi; Sensitising	
R43: May cause sensitisation by skin contact.	
N; Dangerous for the environment	
R50: Very toxic to aquatic organisms.	
. Information concerning particular hazards for human and environment:	
The product has to be labelled due to the calculation procedure of the "General Classification guideline for	
preparations of the EU" in the latest valid version. . Classification system:	
The classification is according to the latest editions of the EU-lists, and extended by company and literature	
data.	
. 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	
$\wedge \wedge \wedge \wedge$	
GHS05 GHS07 GHS08 GHS09	
0H505 0H507 0H508 0H509	
. Signal word Danger	
. Hazard-determining components of labelling:	
hydroquinone	
. Hazard statements	
H315 Causes skin irritation.	
H318 Causes serious eye damage.	
H317 May cause an allergic skin reaction.	
H341 Suspected of causing genetic defects.	
H351 Suspected of causing cancer.	
H400 Very toxic to aquatic life.	
. Precautionary statements	
P101 If medical advice is needed, have product container or label at hand.	
P102 Keep out of reach of children.	
P103 Read label before use.	
P264 Wash thoroughly after handling.	
P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
. 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

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

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. Dangerous components:		
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 Reg.nr.: 01-2119524016-51	hydroquinone Xn R22-40-68; Xi R41; Xi R43; № N R50 Carc. Cat. 3, Muta. Cat. 3 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: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36	potassium carbonate Xi R36/38 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1-5%
CAS: 1330-43-4 EINECS: 215-540-4 Index number: 005-011-00-4	• Repl. 12, 1150012	
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	sodium hydroxide (caustic soda) C R35 Met. Corr.1, H290; Skin Corr. 1A, H314	
CAS: 67-43-6 EINECS: 200-652-8 Reg.nr.: 01-2119497281-34	Diethylenetriamine pentaacetic acid (DTPA)/ N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid) Xn R20-63; Xi R36 Repr. 2, H361; Acute Tox. 4, H332; Eye Irrit. 2, H319	1-5%
CAS: 92-43-3 EINECS: 202-155-1 Index number: 606-022-00-2	1-Phenyl-3-pyrazolidoneXn R22; ₩ N R51/53Aquatic Chronic 2, H411; 小 Acute Tox. 4, H302	
. Not hazardous components		
CAS: 10117-38-1 EINECS: 233-321-1 Reg.nr.: 01-2119537319-34	potassium sulphite	10-<25%
CAS: 7732-18-5 EINECS: 231-791-2	water	50-90%
. SVHC 1330-43-4 disodium tetrabo	rate, anhydrous	
	r the wording of the listed rick phrases refer to section 16	

. Additional information: For the wording of the listed risk 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 and to be sure call for a doctor.
- . After skin contact: Immediately wash with water and soap and rinse thoroughly.
- . After eye contact: Rinse opened eye for several (15 min) under running water.
- . After swallowing:

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- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- . 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 No further relevant information available.
- . 5.3 Advice for firefighters
- . Protective equipment: Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- . 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- . 6.2 Environmental precautions:

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.
- . 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: No special requirements.
- . Information about storage in one common storage facility: Do not store together with acids.
- . Further information about storage conditions:
- Protect from heat and direct sunlight.

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

Recommended storage temperature: 15-25 °C

Store under lock and key and with access restricted to technical experts or their assistants only.

- Protect from exposure to the light.
- . 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:

123-31-9 hydroquinone (3-5%)

WEL (Great Britain) Long-term value: 0.5 mg/m³

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PEL (USA		Long-term value: 2 mg/m ³		
REL (USA	A)	Short-term value: C 2* mg/m ³ *15-min		
TLV (USA	A)	Long-term value: 1 mg/m ³ (SEN) NIC-DSEN		
1330-43-4	disodium	tetraborate, anhydrous (1-	<3%)	
WEL (Gre	at Britain)	Long-term value: 1 mg/m ³		
REL (USA	A)	Long-term value: 1 mg/m ³ anhydrous		
TLV (USA	A)	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction		
1310-73-2	sodium hy	vdroxide (caustic soda) (1- <	(2%)	
		Short-term value: 2 mg/m ³	,	
PEL (USA		Long-term value: 2 mg/m ³		
REL (USA	<i>.</i>	Short-term value: C 2 mg/m ²	3	
TLV (USA		Short-term value: C 2 mg/m ²		
. DNELs	,			
123-31-91	nydroquin	one		
Dermal	Long-term	- systemic - effects, worker		128 mg/kg bw/day (Worker (Arbeiter))
	Long-term	- systemic effects, general p	opulation	64 mg/kd bw/day (Worker (Arbeiter))
Inhalative	Long-term	- local - effects, worker		1 mg/m3 (Worker (Arbeiter))
		n - local effects, general population		0.5 mg/m ³ (Worker (Arbeiter))
		- systemic - effects, worker		7 mg/m3 (Worker (Arbeiter))
Long-term - systemic effects, general po		opulation	1.74 mg/m ³ (Worker (Arbeiter))	
		riamine pentaacetic acid (D' nethyliminobis(ethylenenitri		ncetic acid)
Oral	Akute - sy	stemic effects, general popula	ation	0.9 mg/kg bw/day (.)
Dermal	Long-term	- systemic - effects, worker		9219 mg/kg bw/day (Worker (Arbeiter))
	Long-term	i - systemic effects, general p	opulation	4609 mg/kd bw/day (Worker (Arbeiter))
Inhalative	Akute -loc	al effects, general population	l	2.9 mg/m ³ (.)
	Long-term	i - local - effects, worker		4.5 mg/m3 (Worker (Arbeiter))
Long-term - systemic effects, general population 0.8 mg/m ³ (.)			0.8 mg/m ³ (.)	
. PNECs				
	nydroquin			
Aquatic compartment - freshwater0.000114 mg/L (Water)				
				mg/L (Water)
				mg/kg sed dw (Water)
Aquatic compartment -sediment in marine water			0.000097	' mg/kg sed dw (Water)
Aquatic compartment -water, intermittent releases 0.00134 mg/L (Water)				
-	Sewage treatment plant 0.71 mg/L (Sewage Treatment plant			L (Sewage Treatment Plant)
-			0.000129	9 mg/kg dw (Soil)
Sewage tre Terrestrial	compartme			
Sewage tre Terrestrial 67-43-6 D	iethylenetı	ent -soll riamine pentaacetic acid (D' nethyliminobis(ethylenenitri	TPA)/	



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Aquatic compartm	nent - marine water		(Contd. of page 5 0.5 mg/L (.)
	nent -sediment in freshv	water	18 mg/kg sed dw (.)
	nent -water, intermitten		
Sewage treatment			50 mg/L (.)
Terrestrial compar	-		0.667 mg/kg dw (.)
		during the	e making were used as basis.
Keep away from fr Immediately remo Wash hands befor Do not inhale gase	ive equipment: ve and hygienic measu oodstuffs, beverages an ove all soiled and conta e breaks and at the end es / fumes / aerosols. ection: Ensure adequa	nd feed. minated c l of work.	
,m	ctive gloves		
Material of glove Butyl rubber, BR Nitrile rubber, NB Neoprene gloves The selection of tl and varies from r resistance of the g application. Penetration time	ss BR he suitable gloves does manufacturer to manu glove material can not of glove material	s not only facturer. be calcula	the penetration times, rates of diffusion and the degradation depend on the material, but also on further marks of quality As the product is a preparation of several substances, the ated in advance and has therefore to be checked prior to the by the manufacturer of the protective gloves and has to be
Gove material	breakthroug-time	layer thi	ckness
Butyl rubber:	>480 min	≥0,4mm	
Nitrile rubber: Neoprene:	>480 min >240 min	≥0,38m ≥0,65m	
	ly sealed goggles Protective work clothi	ing	
SECTION 9: 1	Physical and chem	nical pro	operties
. 9.1 Information of	on basic physical and tion	chemical	properties
. General Informa . Appearance:			
General Informa	Fluid		



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Colourless	
Recognisable	
11.3	
: Undetermined. > 100 °C	
Not applicable.	
Product is not selfigniting.	
Product does not present an explosion hazard.	
23 hPa	
1.289 g/cm ³	
Fully miscible.	
0.0 % >80 %	
	Recognisable 11.3 :: Undetermined. > 100 °C Not applicable. Product is not selfigniting. Product does not present an explosion hazard. 23 hPa 1.289 g/cm ³ Fully miscible. 0.0 %

SECTION 10: Stability and reactivity

. 10.1 Reactivity

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- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 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: No further relevant information available.
- . 10.6 Hazardous decomposition products:
- Nitrogen oxides (NOx)
- Irritant gases/vapours

SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity:

. LD/LC50 values relevant for classification: 123-31-9 hydroquinone Oral LD50 320 mg/kg (rat) LD50 >2000 mg/kg (rabbit) Dermal 584-08-7 potassium carbonate LD50 >2000 mg/kg (rat) Oral 1310-73-2 sodium hydroxide (caustic soda) LD50 >2000 mg/kg (rat) Oral 67-43-6 Diethylenetriamine pentaacetic acid (DTPA)/ N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid) LD50 >5000 mg/kg (rat) Oral (Contd. on page 8)



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Dermal LD50 >2000 mg/kg (rat)

Inhalative LC50 4h: 1-5 mg/L (rat)

92-43-3 1-Phenyl-3-pyrazolidone

Oral LD50 475 mg/kg (rat)

. Primary irritant effect:

. on the skin: Irritant to skin and mucous membranes.

. on the eye: Strong irritant with the danger of severe eye injury.

. Sensitisation: Sensitisation possible through skin contact.

. Additional toxicological information:

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

. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Muta. 2, Carc. 2

SECTION 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

123-31-9 hydroquinone

EC50 48h: 0.29 mg/l (daphnia magna (Großer Wasserfloh))

LC50 96h: 0.044 mg/L (Pimephales promelas)

1310-73-2 sodium hydroxide (caustic soda)

EC50 24h: 76 mg/l (daphnia magna (Großer Wasserfloh))

LC50 48h: 99 mg/L (Lepomis macrochirus)

96h: 45.4 mg/L (Oncorhynchus mykiss)

67-43-6 Diethylenetriamine pentaacetic acid (DTPA)/ N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)

LC50 96h: >100 mg/L (lcs)

96h: >674 mg/L (Oncorhynchus mykiss)

92-43-3 1-Phenyl-3-pyrazolidone

EC50 96h: 10 mg/l (daphnia magna (Großer Wasserfloh))

LC50 96h: 1-10 mg/L (fish (acute toxicity study))

. 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.

Additional ecological information:

. General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. 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.

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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 01 01 water-based developer and activator solutions

. Uncleaned packaging:

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. 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	UN3082
. 14.2 UN proper shipping name . ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone)
. IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone), MARINE
. IATA	POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone)
. 14.3 Transport hazard class(es)	
. ADR	
. Class . Label	9 (M6) Miscellaneous dangerous substances and articles. 9
. IMDG, IATA	
. Class . Label	9 Miscellaneous dangerous substances and articles.9
. 14.4 Packing group . ADR, IMDG, IATA	III
. 14.5 Environmental hazards:	Product contains environmentally hazardous substances: hydroquinone
. Marine pollutant:	Yes Sumhal (fish and trac)
. Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
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. Special marking (IATA):	Symbol (fish and tree)
. 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
. Danger code (Kemler):	90
. EMS Number:	F-A,S-F
. Segregation groups	Alkalis
. 14.7 Transport in bulk according to Anno	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
. 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":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone), 9, III

SECTION 15: Regulatory information

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

. 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

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- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- 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.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H360FD May damage fertility. May damage the unborn child.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.

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(Contd. of page 10) H411 Toxic to aquatic life with long lasting effects. R20 Harmful by inhalation. R22 Harmful if swallowed. R35 Causes severe burns. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. Limited evidence of a carcinogenic effect. R40 R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 May impair fertility. R60 R61 May cause harm to the unborn child. Possible risk of harm to the unborn child. R63 Possible risk of irreversible effects. R68 . Contact: e-mail: 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) ICAO: International Civil Aviation Organisation 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Met. Corr.1: Corrosive to metals, Hazard Category 1 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Muta. 2: Germ cell mutagenicity, Hazard Category 2 Carc. 2: Carcinogenicity, Hazard Category 2 Repr. 1B: Reproductive toxicity, Hazard Category 1B Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 * Data compared to the previous version altered.