

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

1.1 Product identifier

Trade name: **VARIOBROM WA**

Article number: 102134

Index number:

None of the ingredients is listed.

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

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.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

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

Signal word Danger

Hazard-determining components of labelling:

Tetrasodium ethylenediaminetetraacetate

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.

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.

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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.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection.
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.
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: 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: 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		
CAS: 123-31-9	hydroquinone	1-5%
EINECS: 204-617-8	⚠ Muta. 2, H341; Carc. 2, H351; ⚠ Eye Dam. 1, H318;	
Index number: 604-005-00-4	⚠ Aquatic Acute 1, H400 (M=10); ⚠ Acute Tox. 4, H302; Skin	
Reg.nr.: 01-2119524016-51	Sens. 1, H317	

. 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 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: 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 (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:** 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:**
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:** 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:**
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.
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.

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. 8.1 Control parameters**. Ingredients with limit values that require monitoring at the workplace:****123-31-9 hydroquinone (1-5%)**WEL (Great Britain) Long-term value: 0.5 mg/m³PEL (USA) Long-term value: 2 mg/m³REL (USA) Ceiling limit: 2* mg/m³
*15-minTLV (USA) Long-term value: 1 mg/m³
DSEN**. DNELs****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****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.

Do not inhale gases / fumes / aerosols.

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

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Neoprene gloves

. Penetration time of glove material

The exact break through 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 yellow
Odour:	Odourless
Odour threshold:	Not determined.

. pH-value at 20 °C: ~11.8**. Change in condition**

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

. Flash point: Not applicable.**. Flammability (solid, gas):** 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:** ~1.4 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:	0.0 %
Water:	50-90 %
VOC (EC)	0.00 %

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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** Based on available data, the classification criteria are not met.
- . **LD/LC50 values relevant for classification:**
- 584-08-7 potassium carbonate**
- Oral LD50 >2000 mg/kg (rat)
- 123-31-9 hydroquinone**
- Oral LD50 302 mg/kg (rat)
- Dermal LD50 >2000 mg/kg (rabbit)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation**
Causes skin irritation.
- . **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:
Irritant
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity**
Suspected of causing genetic defects.
- . **Carcinogenicity**
Suspected of causing cancer.
- . **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:**
- 64-02-8 Tetrasodium ethylenediaminetetraacetate**
- EC50 48h: >100 mg/l (Invertebrates)
- LC50 96h: >500 mg/l (Leuciscus leuciscus (Karpfenfisch))

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123-31-9 hydroquinone

EC50 48h: 0.29 mg/l (daphnia magna (Water flea))

LC50 96h: 0.044 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.. **Additional ecological information:**. **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even 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.

. **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, ADN, IMDG, IATA**

Void

. **14.2 UN proper shipping name**. **ADR, ADN, IMDG, IATA**

Void

. **14.3 Transport hazard class(es)**. **ADR, ADN, IMDG, IATA**. **Class**

Void

. **14.4 Packing group**. **ADR, IMDG, IATA**

Void

. **14.5 Environmental hazards:**

Not applicable.

. **14.6 Special precautions for user**

Not applicable.

. **Stowage Category**

A

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

Not applicable.

. **UN "Model Regulation":**

Void

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.

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- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.

. **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
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – 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
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

. * **Data compared to the previous version altered.**

Annex: Exposure scenario

. Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

. Conditions of use

. **Duration and frequency** 5 workdays/week.

. Physical parameters

. **Physical state** Fluid

. **Concentration of the substance in the mixture** The substance is main component.

. Other operational conditions

. **Other operational conditions affecting environmental exposure** No special measures required.

. Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

. **Other operational conditions affecting consumer exposure** No special measures required.

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- . **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- . **Risk management measures**
- . **Worker protection**
- . **Organisational protective measures** No special measures required.
- . **Technical protective measures** Ensure that suitable extractors are available on processing machines
- . **Personal protective measures**
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the skin.
 - Avoid contact with the eyes.
 - Tightly sealed goggles
 - 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
- . **Measures for consumer protection** Ensure adequate labelling.
- . **Environmental protection measures**
- . **Water** No special measures required.
- . **Disposal measures** Ensure that waste is collected and contained.
- . **Disposal procedures**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- . **Waste type** Partially emptied and uncleaned packaging
- . **Exposure estimation**
- . **Consumer** Not relevant for this Exposure Scenario.

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