

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

Printing date 06.03.2017


version no: 2

Revision: 06.03.2017

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

- . **1.1 Product identifier**
- . **Trade name:** VARIO FIX POWDER
- . **Article number:** 102483
- . **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** Fixing bath 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**  
Eye Dam. 1 H318 Causes serious eye damage.
- . **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
- . **Signal word** Danger
- . **Hazard-determining components of labelling:**  
sodium metabisulphite
- . **Hazard statements**  
H318 Causes serious eye damage.
- . **Precautionary statements**  
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.  
P310 Immediately call a POISON CENTER/doctor.
- . **Additional information:**  
EUH031 Contact with acids liberates toxic gas.
- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

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. 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: 7681-57-4	sodium metabisulphite	10- 25%
EINECS: 231-673-0	☞ Eye Dam. 1, H318; ☞ Acute Tox. 4, H302	
Index number: 016-063-00-2		
Reg.nr.: 01-2119531326-45		

. **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 rinse with water.. **After eye contact:** Rinse opened eye for several minutes under running water. Then 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.

### SECTION 5: Firefighting measures

#### . 5.1 Extinguishing media

#### . **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### . 5.2 Special hazards arising from the substance or mixture

Sulphur dioxide (SO<sub>2</sub>)Nitrogen oxides (NO<sub>x</sub>)

#### . 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.

. **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.. **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

#### . 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.

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### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** Prevent formation of dust.
- . **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.
  - Store in a cool location.
- . **Information about storage in one common storage facility:**
  - Do not store together with acids.
  - Store away from foodstuffs.
- . **Further information about storage conditions:**
  - Protect from humidity and water.
  - Protect from heat and direct sunlight.
  - Store under lock and key and out of the reach of children.
- . **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:**
- 7681-57-4 sodium metabisulphite (10-<25%)**
- WEL (Great Britain) Long-term value: 5 mg/m<sup>3</sup>
- REL (USA) Long-term value: 5 mg/m<sup>3</sup>
- TLV (USA) Long-term value: 5 mg/m<sup>3</sup>
- . **Additional information:** The lists valid during the making were used as basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
  - 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

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**. Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Glove material	breakthroug-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm

**. 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:**

<b>Form:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless

**. pH-value at 20 °C:** ~4.8

**. Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.

**. Flash point:** Not applicable.

**. Auto-ignition temperature:** Product is not selfigniting.

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

**. Density:** Not determined.

**. Solubility in / Miscibility with water:**

Soluble.

**. Viscosity:**

<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.

**. Solvent content:**
**Organic solvents:** 0.0 %

**Solids content:** 100.0 %

**. 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:** No decomposition if used according to specifications.

**. 10.3 Possibility of hazardous reactions** Reacts with acids releasing sulphur dioxide.

**. 10.4 Conditions to avoid** No further relevant information available.

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- . **10.5 Incompatible materials:** No further relevant information available.
- . **10.6 Hazardous decomposition products:** Sulphur 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:**
- . **7681-57-4 sodium metabisulphite**
- . Oral LD50 1540 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** Based on available data, the classification criteria are not met.
- . **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:**
- . **7681-57-4 sodium metabisulphite**
- . EC50 48h: 89 mg/l (daphnia magna (Water flea))
- . LC50 96h: 150-220 mg/l (fish: Oncorhynchus mykiss)
- . **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 1 (German Regulation) (Self-assessment): slightly 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.

### 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 04\* fixer solutions
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.

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

**SECTION 14: Transport information**

. <b>14.1 UN-Number</b> . <b>ADR, ADN, IMDG, IATA</b>	Void
. <b>14.2 UN proper shipping name</b> . <b>ADR, ADN, IMDG, IATA</b>	Void
. <b>14.3 Transport hazard class(es)</b> . <b>ADR, ADN, IMDG, IATA</b> . <b>Class</b>	Void
. <b>14.4 Packing group</b> . <b>ADR, IMDG, IATA</b>	Void
. <b>14.5 Environmental hazards:</b> . <b>Marine pollutant:</b>	No
. <b>14.6 Special precautions for user</b>	Not applicable.
. <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
. <b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

. **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.

H318 Causes serious eye damage.

. **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)

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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