

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

TETENAL

Printing date 04.10.2020

version no: 4

Revision: 04.10.2020

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

1.1 Product identifier

Trade name: VARIO FIX POWDER

Article number: 102483

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 Fixing bath 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
E-mail: saal@saal-group.com

1.4 Emergency telephone number:

Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)
Germany AgfaPhoto: +49 (0) 9172 6670-0 weekdays 8.30a.m to 5 p.m MEZ

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 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.

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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		

. **Not hazardous components:**

CAS: 7772-98-7	sodium thiosulphate waterfree; (Pentahydrat CAS 10102-17-7)	25-50%
EINECS: 231-867-5		
Reg.nr.: 01-2119531537-38		
CAS: 7783-18-8	Ammonium thiosulphate	25-50%
EINECS: 231-982-0		
Reg.nr.: 01-2119537325-41		

. **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:** Take affected persons out into the fresh air.. **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:** Do not induce vomiting; call for medical help 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:** 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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

. **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.

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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 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: 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.
- Store away from water.

Further information about storage conditions:

- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Protect from humidity and water.
- 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:

7681-57-4 sodium metabisulphite (10-<25%)

WEL (Great Britain) Long-term value: 5 mg/m³

REL (USA) Long-term value: 5 mg/m³

TLV (USA) Long-term value: 5 mg/m³

DNELs

7681-57-4 sodium metabisulphite

Oral Long-term - systemic effects 8.6 mg/kg bw/day (general population- Verbraucher)

Inhalative Long-term - systemic effects 66 mg/m³ (general population- Verbraucher)

Long-term - systemic-effects 225 mg/m³ (Worker (Arbeiter))

PNECs

7681-57-4 sodium metabisulphite

Aquatic compartment - freshwater 1 mg/l (-)

Aquatic compartment - marine water 0.1 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.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.

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Avoid contact with the eyes and skin.

. **Respiratory protection:** Ensure adequate ventilation

. **Protection of hands:**

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**

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: Solid

Colour: White

. **Odour:** Odourless

. **Odour threshold:** Not determined.

. **pH-value at 20 °C:** 4.8

. **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

. **Flash point:** Not applicable.

. **Flammability (solid, gas):** Not determined.

. **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 applicable.

. **Density at 20 °C:** 1.5 g/cm³

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. Relative density	Not determined.
. Vapour density	Not applicable.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with water:	Soluble.
. Partition coefficient: n-octanol/water:	Not determined.
. Viscosity:	
. Dynamic:	Not applicable.
. Kinematic:	Not applicable.
. Solvent content:	
. 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:** Stable at environment temperature.
- . **10.3 Possibility of hazardous reactions**
 - Reacts with acids releasing sulphur dioxide.
 - Reacts with acids, alkalis and oxidising agents.
 - Risk of dust explosion.
- . **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:**
 - Sulphur dioxide
 - 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:**

7681-57-4 sodium metabisulphite

Oral LD50 1,540 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.
- . **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** 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.

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. **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:**

7681-57-4 sodium metabisulphite

EC50 48 mg/l (daphnia magna (Water flea))

LC50 96-220 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:**

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

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.

. **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** Void

. **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:**

. **Marine pollutant:** No

. **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

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. UN "Model Regulation":	Void
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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

. **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65

. **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.

H318 Causes serious eye damage.

. **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)

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4

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

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

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