

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 18.02.2005

* 1 Identification of substance:

· **Product details:** Reagent for water analysis

· **Product name:** Vario Nitri3 F10

· **Catalog number:** 251 409 **Model:** NO2-1 TP

· **Supplier:**

WTW Wissenschaftlich-Technische Werkstätten GmbH

Dr.-Karl-Slevogt-Straße 1

D-82362 Weilheim

Fax: +49(0)881 183-420

Tel.: +49(0)881 183-0

Tel.: +49(0)881 183-100

Internet: <http://www.WTW.com>

E-Mail: Info@WTW.com

· **Emergency information:**

Poison Center Berlin, Germany

phone: +49(0)30 19240

* 2 Composition/Data on components:

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 6381-92-6	Ethylenediaminetetraacetic acid disodium salt	<input checked="" type="checkbox"/> Xi; R 36-52/53	≤ 2.5%
EINECS: 205-358-3			

· **Additional information** For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

· **Hazard designation:** void

· **Information pertaining to particular dangers for man and environment**

The product does not have 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 in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

* 4 First aid measures

· **General information** No special measures required.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Drink copious amounts of water, induce vomiting.

In case of persistent symptoms consult doctor.

· **The following symptoms may occur:**

After swallowing of large amounts:

sickness

gastric pain

diarrhoea

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 18.02.2005

Product name: Vario Nitri 3 F10

general feeling of sickness

(Contd. of page 1)

*** 5 Fire fighting measures**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
 - **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
Phosphorus oxides (PxOx)
Nitrogen oxides (NOx)
 - **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
 - **Additional information**
Ambient fire may liberate hazardous vapours.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.
-

*** 6 Accidental release measures**

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
 - **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
 - **Measures for cleaning/collecting:**
Collect mechanically.
Ensure adequate ventilation.
Dispose of contaminated material as waste according to item 13.
 - **Additional information:** No dangerous materials are released.
-

*** 7 Handling and storage**

- **Handling**
 - **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
 - **Information about protection against explosions and fires:**
Protect from heat.
The product is not flammable
 - **Storage**
 - **Requirements to be met by storerooms and containers:** Store in cool location.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
Protect from humidity and keep away from water.
 - **Storage class** Not required.
-

*** 8 Exposure controls and personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 18.02.2005

Product name: Vario Nitri 3 F10

(Contd. of page 2)

- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P1
- **Protection of hands:** Preventive skin protection by use of skin-protecting agents is recommended.
- **Material of gloves**
Nitrile
Recommended thickness of the material: ≥ 0.11 mm
- **Penetration time of glove material**
Value for the permeation: Level ≥ 6 (480 min)
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

* 9 Physical and chemical properties:

· Form:	Powder
· Colour:	Light beige
· Odour:	Odourless
· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	Not determined
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Density	Not determined
· Solubility in / Miscibility with Water:	Soluble
· pH-value (28.5 g/l) at 20°C:	3.1
· Solvent content:	
Organic solvents:	0.0 %
· Solids content:	100.0 %

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** see chapter 5

* 11 Toxicological information

- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.

· LD/LC50 values that are relevant for classification:		
7778-77-0 potassium dihydrogenorthophosphate		
Oral	LD50	7100 mg/kg (rat)
	LDLo	4640 mg/kg (rat)
6381-92-6 Ethylenediaminetetraacetic acid disodium salt		
Oral	LD50	> 2000 mg/kg (rat)

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 18.02.2005

Product name: Vario Nitri 3 F10

(Contd. of page 3)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The usual precautionary measures should be adhered to general rules for handling chemicals.

*12 Ecological information:

- **Information about elimination (persistence and degradability):**

- **Other information:** Quantitative data on the ecological effect of this product are not available.

- **Behaviour in environmental systems:**

- **Mobility and bioaccumulation potential:**

Phosphates and/or nitrogen compounds: may contribute to the eutrophication of water supplies

- **Ecotoxic effects:**

- **Acquatic toxicity:**

6381-92-6 Ethylenediaminetetraacetic acid disodium salt

LC50 159 mg/l/96h (Lepomis macrochirus)

~ 320 mg/l/96h (Poecilia reticulata)

- **General notes:**

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

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

*13 Disposal considerations

- **Product:**

- **Recommendation** Hand over to disposers of hazardous waste.

- **European waste catalogue**

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

*14 Transport information

- **ADR/GGVSE:**

.

- **IMDG/GGVSee:**

- **EMS-Number:**

.

- **ICAO/IATA:**

- **Transport/Additional information:** Not dangerous according to the above specifications.

GB
(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 18.02.2005

Product name: Vario Nitri 3 F10

(Contd. of page 4)

* 15 Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
 - **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
-

* 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
36 Irritating to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - **Department issuing data specification sheet:** Department TSS, Dr. Manfred Kaul
 - **Data compared to the previous version altered.**
-

— GB —