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Material Safety Data Sheet According to 91/155 EEC

Reviewed on 17.02.2005

1 Identification of substance:

Product details: Reagent for water analysis
Product name: Vario Iron TPTZ F10

· Catalog number: 251 404 Model: Fe-1 TP

· Supplier:

WTW Wissenschaftlich-Technische Werkstätten GmbH

Dr.-Karl-Slevogt-Straße 1

D-82362 Weilheim Tel.: +49(0)881 183-0 Internet: http://www.WTW.com Fax: +49(0)881 183-420 Tel.: +49(0)881 183-100 E-Mail: Info@WTW.com

· Emergency information:

Poison Center Berlin, Germany

Tel.: +49(0)30 19240

2 Composition/Data on components:

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

· Dangerous components:					
CAS: 7681-57-4	disodium disulphite	Xn; R 22-31-41	10-20%		
EINECS: 231-673-0					
EC Number: 016-063-00-2					
CAS: 7775-14-6	sodium dithionite	X n; R 7-22-31	10-20%		
EINECS: 231-890-0					
EC Number: 016-028-00-1					

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

3 Hazards identification

· Hazard designation:



Xn Harmful

· Information pertaining to particular dangers for man 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.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 41 Risk of serious damage to eyes.

· 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.

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4 First aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Instantly remove any clothing soiled by the product.

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

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eve contact

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

- · After swallowing Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- · The following symptoms may occur:

after inhalation:

breathing difficulty

coughing

mucous membrane irritation

after swallowing:

allergic reactions

headache

sickness

vomiting

gastric or intestinal trouble

diarrhoea

* 5 Fire fighting measures

· Suitable extinguishing agents

Fire-extinguishing powder

Limestone powder

Dry sand

· 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.

Sulphur oxides (SOx)

Carbon monoxide (CO)

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:

Put on breathing apparatus.

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.

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Dispose of contaminated material as waste according to item 13.

^{*} 7 Handling and storage

- · Handling
- · Information for safe handling: Prevent formation of dust.
- · Information about protection against explosions and fires: Protect from heat.
- · Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidizing agents.

· Further information about storage conditions:

Store under dry conditions.

Protect from humidity and keep away from water.

Protect from the effects of light.

· 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:

7681-57-4 disodium disulphite

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

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P2
- · Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves

Nitrile

Recommended thickness of the material: ≥ 0.11 mm

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.

· Penetration time of glove material

Value for the permeation: Level ≥ 6 (480 min)

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

- · Eve protection: Tightly sealed safety glasses.
- · **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· Form: Powder

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White			
Odourless			
: Not determined			
Not determined			
Not applicable			
Product is not selfigniting.			
Product is not explosive.			
Not determined			
· Solubility in / Miscibility with			
Soluble			
3.4			
0.0 %			
100.0 %			

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: strong heating
- · Materials to be avoided:

oxidizing agents

--> forms heat

acids

sodium nitrite

sodium chlorite

- · Dangerous reactions Contact with acids releases toxic gases
- · Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

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:			
7681-57-4 disodium disulphite			
Oral LD50 1540 mg/kg (rat)			
7775-14-6 sodium dithionite			
Oral LD50 2500 mg/kg (rat)			
50-81-7 ascorbic acid			
Oral LD50 11900 mg/kg (rat)			
. Primary irritant affects			

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effect known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

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		(Contd. of page 4)
Irritant		(contain of page 1)

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:

50-81-7 ascorbic acid

log P(o/w) -2.15 (.)

- · Ecotoxical effects:
- · Acquatic toxicity:

7681-57-4 disodium disulphite

EC50 89 mg/l/48h (Daphnia magna)

LC50 150-220 mg/l/96h (Onchorhynchus mykiss)

50-81-7 ascorbic acid

LC50 33000 (Merck) mg/l/48h (Leuciscus idus) 1020 mg/l/96h (Onchorhynchus mykiss)

- · Remark
- · Algeal toxicity: CAS No. 7681-57-4 Desmodesmus subspicatus IC50: 48mg/l/72 h
- · Bacterial toxicity: CAS No. 7681-57-4 Pseudomonas putida EC50: 56 mg/l/17 h
- · Additional ecological information:
- · CSB-value:

7681-57-4 disodium disulphite

COD 0.168 g/g (.)

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- · Product:
- · Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · European waste catalogue

16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

- · 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-Nummer: -		
· ICAO/IATA: -		

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

*15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:

Xn Harmful

· Hazard-determining components of labelling:

disodium disulphite

· Risk phrases:

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 41 Risk of serious damage to eyes.

· Safety phrases:

- 22 Do not breathe dust.
- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/39 Wear suitable protective clothing and eye/face protection.
- This material and its container must be disposed of as hazardous waste.

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

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 41 Risk of serious damage to eyes.
- 7 May cause fire.
- · Department issuing data specification sheet: Department TSS, Dr. Manfred Kaul
- \cdot Data compared to the previous version altered.

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