

Printing date 13.07.2005

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**1 Identification of the substance/preparation and of the company/undertaking**

- **Product details**
- **Trade name:** Farbindikator für Antox 73 E
- **Article number:** 02.0020
- **Application of the substance / the preparation .**
- **Manufacturer/Supplier:**  
Chemetall (Schweiz) AG  
Silostrasse 7  
CH-5606 Dintikon  
Tel. ++41(0)56 616 90 30  
Fax ++41(0)56 616 90 40
- **Further information obtainable from:**  
Chemetall (Schweiz) AG  
Product safety department
- **Information in case of emergency:**  
Schweiz / Suisse / Switzerland  
Schweiz. Toxikologisches Informationszentrum Zürich (STIZ)  
Tel. ++41(0)1 251 51 51  
Tel. 145 (24 h)  
www.toxi.ch

**2 Composition/information on ingredients**

- **Chemical characterization:**
- **CAS No. Description**  
7722-64-7 potassium permanganate
- **Identification number(s)**
- **EINECS Number:** 231-760-3
- **EU Number:** 025-002-00-9

**3 Hazards identification**

- **Hazard description:**



Xn Harmful  
O Oxidising  
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

R 8 Contact with combustible material may cause fire.  
R 22 Harmful if swallowed.  
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.

GB

(Contd. on page 2)

Printing date 13.07.2005

Reviewed on 13.07.2005

Trade name: Farbindikator für Antox 73 E

(Contd. of page 1)

**5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13.

**7 Handling and storage**

- **Handling:**
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

· <b>Ingredients with limit values that require monitoring at the workplace:</b>	
7722-64-7 potassium permanganate	
MEL (Great Britain)	Long-term value: 0.5 mg/m <sup>3</sup> as Mn
OES (Great Britain)	Long-term value: 5 mg/m <sup>3</sup> as Mn

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.
- **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.

(Contd. on page 3)

Printing date 13.07.2005

Reviewed on 13.07.2005

Trade name: Farbindikator für Antox 73 E

(Contd. of page 2)

- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Crystalline
<b>Colour:</b>	Violet
<b>Odour:</b>	Weak, characteristic

### · Change in condition

**Melting point/Melting range:** >240, Zers. °C  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Contact with combustible material may cause fire.

· **Vapour pressure at 20°C:** 0 hPa

· **Density at 20°C:** 2.703 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

<b>water at 20°C:</b>	64.3 g/l
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

### · LD/LC50 values relevant for classification:

7722-64-7 potassium permanganate

Oral	LD50	1090 mg/kg (rat)
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### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

### · Ecotoxicological effects:

· **Remark:** Very toxic for fish

### · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): 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.  
 Also poisonous for fish and plankton in water bodies.

(Contd. on page 4)

GB

Printing date 13.07.2005

Reviewed on 13.07.2005

Trade name: Farbindikator für Antox 73 E

Very toxic for aquatic organisms

(Contd. of page 3)

**13 Disposal considerations**

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**14 Transport information**· **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 5.1 Oxidizing substances.
- **Danger code (Kemler):** 50
- **UN-Number:** 1490
- **Packaging group:** II
- **Hazard label** 5.1
- **Description of goods:** 1490 POTASSIUM PERMANGANATE

· **Maritime transport IMDG:**

- **IMDG Class:** 5.1
- **UN Number:** 1490
- **Label** 5.1
- **Packaging group:** II
- **EMS Number:** F-H,S-Q
- **Marine pollutant:** No
- **Proper shipping name:** POTASSIUM PERMANGANATE

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 1490
- **Label** 5.1
- **Packaging group:** II
- **Proper shipping name:** POTASSIUM PERMANGANATE

GB

(Contd. on page 5)

Printing date 13.07.2005

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(Contd. of page 4)

**15 Regulatory information****· Labelling according to EU guidelines:**

*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*

**· Code letter and hazard designation of product:**

*Xn Harmful  
O Oxidising  
N Dangerous for the environment*

**· Risk phrases:**

*8 Contact with combustible material may cause fire.  
22 Harmful if swallowed.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

**· Safety phrases:**

*17 Keep away from combustible material.  
36 Wear suitable protective clothing.  
57 Use appropriate container to avoid environmental contamination.  
60 This material and its container must be disposed of as hazardous waste.*

**· National regulations:**

**· Waterhazard class:** *Water hazard class 2 (Assessment by list): hazardous for water.*

**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.*

**· Contact:**

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