



Material Safety Data Sheet According to 91/155 EEC

Printing date 03.05.2005

Reviewed on 03.05.2005

* 1 Identification of substance:

· **Product details:** Standard Solution for calibration purposes

· **Product name:** Fluoride Standard 1 mg/l

· **Catalog number:** 205630

· **Supplier:**

Tintometer GmbH
Schleefstraße 8a-12
D - 44287 Dortmund
Made in Germany

phone: +49(0)231 94510-0

· **Informing department:** Department Laboratory

· **Emergency information:**

Poison Center Berlin, Germany
phone: +49(0)30 19240

2 Composition/Data on components:

· **Chemical characterization:**

· **CAS No. Designation:**

7732-18-5 water, distilled, conductivity or of similar purity

· **Identification number(s):**

· **EINECS Number:** 231-791-2

3 Hazards identification

· **Hazard designation:** void

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

* 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 rinse with water.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **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
vomiting

* 5 Fire fighting measures

· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Collect contaminated fire fighting water separately. It must not enter drains.
Ambient fire may liberate hazardous vapours.

* 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
 - **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Dilute with much water.
 - **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, universal binders).
Dispose of contaminated material as waste according to item 13.
 - **Additional information:** No dangerous materials are released.
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* 7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** 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:**
Protect from heat and direct sunlight.
Protect from humidity and keep away from water.
Protect from the effects of light.
 - **Storage class** Not required.
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* 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:** Not required.
 - **Additional information:** The lists that were valid during the compilation were used as basis.
 - **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.
 - **Protection of hands:**
Preventive skin protection by use of skin-protecting agents is recommended.
No chemical-protective gloves required.
 - **Eye protection:** Not required.
 - **Body protection:** Protective work clothing.
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* 9 Physical and chemical properties:

- | | |
|------------------|------------|
| · Form: | Fluid |
| · Colour: | Colourless |
| · Odour: | Odourless |

- | | |
|---------------------------------------|-------|
| · Melting point/Melting range: | 0°C |
| · Boiling point/Boiling range: | 100°C |

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· Flash point:	Not applicable
· Danger of explosion:	Product is not explosive.
· Density at 20°C	1 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible
· pH-value at 20°C:	7
· Organic solvents:	0.0 %
· Water:	< 100 %
· Solids content:	< 2 %

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
 - **Dangerous reactions** No dangerous reactions known
 - **Dangerous products of decomposition:** see chapter 5
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* 11 Toxicological information

- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
 - **Sensitization:** No sensitizing effect known.
 - **Additional toxicological information:**
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 material is not subject to classification according to EC lists in the last version.
The usual precautionary measures should be adhered to general rules for handling chemicals.
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* 12 Ecological information:

- **General notes:** Generally not hazardous for water.
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* 13 Disposal considerations

- **Product:**
- **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· 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.
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* 14 Transport information

· Land transport ADR/RID (cross-border)
· ADR/RID-GGVS/E Class: -

· Maritime transport IMDG:
· IMDG Class: -
· Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:
· ICAO/IATA Class: -

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

* 15 Regulatory information

· **Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

· **National regulations**

· **Water hazard class:** Generally not hazardous for water.

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.

· **Department issuing data specification sheet:** Technical Department

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