

## **WTW Safety Data Sheet** According to EC Directives 91/155/EEC

## 1. Identification of the substance/preparation and of the company/undertaking

Product name:

**Solution for Sample Preparation for Fluoride Determination** 

140 100 Ord. No.: Model: **TISAB** 

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, Tel.: (0881) 183-0, Fax.: (0881) 62539

Emergency telephone: (001)-703-527-3887

#### 2. Composition/information on ingredients

Chemical characterization: Aqueous saline solution

Hazardous ingredients: Ammonium chloride

Harmful (Xn) Hazard symbols: R-phrases: 22-36 2,5 % Content: CAS-No.: 12125-02-9 EINECS-No.: 235-186-4

#### 3. Hazards identification

No hazardous product.

# 4. First aid measures

Fresh air After inhalation:

After skin contact: Wash off with plenty of water. Remove contaminated clothing.

Rinse out with plenty of water with the eyelid After eye contact:

held wide open.

After ingestion: Make injured person drink plenty of water.

Induce vomiting. Summon doctor.

Date of issue: 12.2.2004 140100E.doc Dr. Manfred Kaul Page 1 of 4

## **WTW Safety Data Sheet**

#### Identification of the substance/preparation

## **Solution for Sample Preparation for Fluoride Determination**

## 5. Fire-fighting measures

Suitable extinguishing media: To suit environment.

Unsuitable extinguishing media: No information available.

Special risks: Development of hazardous vapours possible in the event

of fire. The following may develop in the event of fire:

NH<sub>3</sub>, HCl, chlorine.

Use chemical protection clothing and selfcontained breathing

apparatus in the dangerous zone.

Other information: Non combustible

#### 6. Accidental release measures

Personal-related precautionary measures: Avoid generation of aerosols.

Environmental-protection measures: Do not allow to enter sewerage

system.

Procedures for cleaning/absorption: Take up with liquid-absorbent material.

Forward for disposal.

Clean up affected area with water.

#### 7. Handling and storage

Handling: No further requirements

Storage: Tightly closed.

#### 8. Exposure control/personal protection

Specific control parameters: None

Personal protective equipment

Respiratory protection: Only required when aerosols are generated.

Eye protection: Protective glasses

Hand protection: Gloves

Industrial hygiene: Wash hands and face after working with solution.

140100E.doc Date of issue: 12.2.2004 Dr. Manfred Kaul Page 2 of 4

## **WTW Safety Data Sheet**

#### Identification of the substance/preparation

#### **Solution for Sample Preparation for Fluoride Determination**

# 9. Physical and chemical properties

Form: Liquid Colour: Brown Odour: Pungent

pH-value near 5,1 at 20°C

Melting temperature: °C

Boiling temperature: near 100°C

Ignition temperature: °C
Flash point: °C
Explosion limite lower: /
upper: /

upper: Density:

Solubility in water: miscible

Thermal decomposition: /

## 10. Stability and reactivity

Conditions to be avoided: Do not alkalize the solution.

Substances to be avoided: Alkali hydroxides, chlorates, nitrates,

nitrides.

Hazardous decomposition products: Ammonia, hydrochloric acid.

Further information: None

#### 11. Toxicological information

Acute toxicity: LD 50 oral: 1440 mg/kg (Ammonium chloride)

Further toxicological information: After skin contact: slight irritation symptoms.

After eye contact: irritant effect. After ingestion: mucosal irritations.

After ingestion of large amounts: headache, nausea,

unconsciousness.

#### 12. Ecological information

Ecotoxic effects: Ammonium ions cause biological effects: fish: toxic as

from 0,3 mg/l.

No ecological problems are to be expected when the product is handled and used with due care and attention.

140100E.doc Date of issue: 12.2.2004 Dr. Manfred Kaul Page 3 of 4

#### **WTW Safety Data Sheet**

#### Identification of the substance/preparation

#### **Solution for Sample Preparation for Fluoride Determination**

## 13. Disposal considerations

Products: There are no uniform regulations for the disposal of chemicals

or residues. The disposal is regulated through corresponding

regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which

will advise you on how to dispose the special waste.

Packaging: Handle contaminated packaging in the same way as the

substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

## 14. Transport information

Not subject to transport regulations.

#### 15. Regulatory information

Labelling according to EC directives

Symbol: No hazardous product

R-phrases: / S-phrases: /

German regulations

Water pollution class; WGK: 1 Slightly polluting substance

Regulation on combustible liquids; VbF: Non combustible

Other regulations: None

#### 16. Other information

Date of issue: 12.2.2004
Supersedes edition of 22.3.2001
Reason for alteration: General update

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

140100E.doc Date of issue: 12.2.2004 Dr. Manfred Kaul Page 4 of 4