

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 5 mol/l NaNO₃

Ord. No.: 140 110

Model: ISA/FK

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

Ingredients: Sodium nitrate

Hazard symbols: Oxidizing (O) and harmful (Xn)

R-phrases: 8-22-36

Content: about 34 %

CAS-No.: 7631-99-4

EINECS-No.: 231-554-3

3. Hazards identification

Sodium nitrate in pure state may cause fire with combustible material. Harmful if swallowed. Irritating to eyes.

4. First aid measures

After inhalation: Fresh air.

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

After eye contact: Rinse out with plenty of water with the eyelid held wide open.

After ingestion: Make the injured person drink plenty of water.
Induce vomiting. Immediately summon doctor.

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5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	To suit environment.
<i>Unsuitable extinguishing media:</i>	No information available.
<i>Special risks:</i>	Sodium nitrate is fire-promoting. Development of hazardous vapours possible in the event of fire.
<i>Other information:</i>	The following may develop in the event of fire: Nitrogen oxides Use chemical protection clothing and self-contained breathing apparatus in the dangerous zone.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid generation of dusts. Do not inhale dusts.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<i>Procedures for cleaning/absorption:</i>	Take up with liquid-absorbent, non combustible material (e.g. sand). Forward for disposal. Clean up affected area with water.

7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Tightly closed. Keep away from sources of ignition and heat.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	None
Personal protective equipment	
<i>Respiratory protection:</i>	Required when dusts are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves
<i>Industrial hygiene:</i>	Wash hands after working with substance. Change contaminated clothing.

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9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Odourless
<i>pH-value</i>	°C	
<i>Melting temperature:</i>	°C	
<i>Boiling temperature:</i>	about 100°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i> upper:</i>	/	
<i>Density:</i>	1,26 g/cm ³	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	> 380°C	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Do not evaporate the solution.
<i>Substances to be avoided:</i>	All reducing agents
<i>Hazardous decomposition products:</i>	Nitrogen oxides above 380°C
<i>Further information:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	LD 50 oral: 1267 mg/kg for sodium nitrate
<i>Further toxicological information:</i>	Sodium nitrate is not much toxic. After ingestion: mucosal irritation, nausea, diarrhoea, vomiting. After absorption of large quantities: methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, spasms and cyanosis (blue colouration of the blood).

12. Ecological information

<i>Ecotoxic effects:</i>	Biological effects: microorganisms LC50: 700 mg/l cold blood animals LC50: 500 mg/l toxic effects on fish Do not allow to enter drinking water supplies, waste water, or soil.
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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

<i>Symbol:</i>	Harmful (Xn)
<i>R-phrases:</i> 22-36	Harmful if swallowed. Irritating to eyes.
<i>S-phrases:</i> 24/25	Avoid contact with skin and eyes.

German regulations

<i>Water pollution class;</i>	WGK: 1	Slightly polluting substance
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<i>Regulation on combustible liquids;</i>	VbF: /
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<i>Other regulations:</i>	None
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16. Other information

Date of issue:	12.2.2004
Supersedes edition of	26.11.2001
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.