

(MSDS) Material Safety Data Sheet

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1. Identification of the preparation.

| | CAT NO. | Pack. |
|--------------|----------------|--------------|
| STROMALYSE E | 7320ER | 1/2 Liter |
| STROMALYSE E | 7321ER | 1 Liter |
| STROMALYSE E | 7322ER | 100 MI |

LYSING agent for blood cell counters:

Intended use: Lysing of RBC to obtain WBC and Hgb parameters with blood cell counters.

2. Composition / information on components.

| | | | |
|--------------------------|------------------|----------------------------------|--|
| Active components: | | | |
| Quaterner ammonium salts | Contains < 5% | | |
| INDEX number | - | R11-22-34-50-67 S 26-36/37/39-45 | |
| Potassium cyanide | Contains < % 0,1 | | |
| | | R:26/27/28-32-50/53 | |

3. Hazards Identification.

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| The solution is regarded as dangerous. Avoid to direct contact |
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4. First-Aid Measures.

After exposure by respiratory passages: fresh air. Call in physician.
After skin contamination: wash off with plenty of water. Dab with polyethylene glycol 400. Take off the contaminated clothing.
After contamination of eyes: rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.
After consumption: give the sufferer a large amount of water to drink.
Avoid vomiting. (Risk of perforation!)
If the sufferer feels unwell, consult a doctor. Do not attempt to neutralize

5. Fire Fighting Measures:

Suitable extinguishing media:
In adaptation to materials stored in the immediate neighborhood. Water, CO₂ powder, foam. During fire thermal decomposition of the substances contained in the preparation may occur. As a result of that toxic smokes and gases may be formed, which contain in nitrose gases. The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air. The preparation is not a flammable substance.

6. Accidental Release Measures:

Preventive measures related to the staff:
Avoid contamination with the preparation.
Cleaning /absorption procedures :
Collect small quantities with the use of an absorbing agent, rinse with large amount of water if necessary.

7. Handling and Storage:

Procedures:
In accordance with the norms generally accepted for chemicals in laboratories.
Storage:
Hermetically closed. In temperature from +15°C to +30°C.

8. Exposure Controls/ Personal Protection:

Appropriate control parameter:
Quaterner ammonium chloride compound Risk of skin absorption.
Hegzadecyltrimethyl ammonium chloride, Risk of skin absorption.
Tetradecyltrimethyl ammonium chloride Risk of skin absorption.
Dodecyltrimethyl ammonium chloride Risk of skin absorption.
Decyltrimethyl ammonium chloride Risk of skin absorption.
Personal control equipment:
Respiratory passages: not required
Eyes: not required
Hands: not required
Industrial hygiene:
Change contaminated clothing. Wash your hands after work with the substance.

9. Physical and Chemical Properties.

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|-----------------------|--|
| Form : | clear solution |
| Colour : | colorless |
| Odour | amine odour |
| Vapour Pressure | no data available |
| Boiling temperature: | no data available |
| Melting temperature: | no data available |
| Ignition temperature: | incombustible |
| Flammability: | incombustible |
| Density: | 1,06 ± 0,1 g/cm ³ (20 °C) |
| pH: | 10 ± 2 (25 °C) |

10. Stability and Reactivity:

Conditions that should be avoided:

The solution is stable in conditions provided by the manufacturer.

Substances that should be avoided:

Heavy metals, metal salts, acids.

Dangerous decomposition products:

In the case of fire – nitrose gases.

Further information:

A stabilized product

11. Toxicological Information:

Acute toxicity:

Quantitative data on the toxicity of this product are not available.

Further toxicological information:

Toxic activity should not be expected if you use this product appropriately.

Further data:

The product should be handled with the care usual when dealing with chemicals.

12. Ecological Information:

Ecotoxic activity:

Quantitative data on the ecological effect of this product are not available.

Further ecological data:

Ecological problems should not be expected if you use and apply the product appropriately.

13. Disposal Considerations:

Product:

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste.

Packing:

Remove in accordance with official regulations. Treat contaminated packages in the

same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.

14. Transportation Information:

The product is not subject to transport regulations.

15. Regulatory Information:

Material Safety Data Sheet was prepared in accordance with:

The EC Directive Nr UE2001/58/WE, the EC Directive Nr 1999/45/EG, the EC Directive 67/548 EEC, EC Directive 88/379/EEC or the EC Directive 91/155/EEC (Dangerous Product Regulations incl. EC Guidelines).

Marking:

Not applicable.

16. Other Information.

The foregoing information is based on the present state of our knowledge. It characterizes the product with respect to the appropriate safety measures. They do not guarantee the properties of the product.

We do not take responsibility for damage and losses that may result from inappropriate use of the preparation.

The foregoing safety chart prepared in electronic version is legally valid without sign manual.