

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifiers

Product name: Tyrode's Salt Solution, w/o: NaHCO<sub>3</sub>  
Product number: P04-54500

Brand: PAN Biotech

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

### Details of the supplier of the safety data sheet

Company: PAN Biotech GmbH  
Am Gewerbepark 13  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30  
Fax: +49-(0)8543-6016-49  
E-mail: info@pan-biotech.de

### Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

## 2. HAZARDS IDENTIFICATION

### Special Indication of HAZARDS to humans and the Environment

Not hazardous according to Directive 67/548/EEC.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

No components need to be disclosed according to the applicable regulations.

## 4. FIRST AID MEASURES

### After Inhalation

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### After Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water.

### **After Eye Contact**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

### **After Ingestion**

If swallowed, wash out mouth with water provided person is conscious. Call a physician if symptoms persist.

## **5. FIREFIGHTING MEASURES**

### **Extinguishing Media**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### **Special Risks**

Specific Hazard(s): Emits toxic fumes under fire conditions.

### **Special Protective equipment for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Methods for cleaning up**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## **7. HANDLING AND STORAGE**

### **Handling**

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### **Storage**

Conditions of Storage: Keep tightly closed. Store at 2°C - RT

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

### **General Hygiene Measures**

Wash thoroughly after handling.

### **Personal Protective Equipment**

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State: Liquid
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Flash Point	Not available
Flammability	Not available
Autoignition Temp	Not available
Oxidizing Properties	Not available
Explosive Properties	Not available
Explosion Limits	Not available
Vapor Pressure	Not available
Partition Coefficient	Not available
Viscosity	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
Evaporation Rate	Not available
Bulk Density	Not available
Decomposition Temp.	Not available
Solvent Content	Not available
Water Content	Not available
Surface Tension	Not available
Conductivity	Not available
Miscellaneous Data	Not available
Solubility	Not available

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Materials to Avoid</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	no data available
<b>Hazardous Polymerization</b>	no data available

## 11. TOXICOLOGICAL INFORMATION

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Route of Exposure**

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## 14. TRANSPORT INFORMATION

<b>RID/ADR</b>	Non-hazardous for road transport.
<b>IMDG</b>	Non-hazardous for sea transport.
<b>IATA</b>	Non-hazardous for air transport.

## 15. REGULATORY INFORMATION

Not hazardous according to Directive 67/548/EEC.  
Caution: Substance not yet fully tested (EU).

## 16. OTHER INFORMATION

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.pan-biotech.com](http://www.pan-biotech.com) or reverse side of invoice or packing slip for additional terms and conditions of sale.

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