

MATERIAL SAFETY DATA SHEET

Sodium Phosphate Buffer (NaPi), pH 6.5, pH 7.0, pH 7.2, and pH 7.4

1. Product and Company Information

Product Name:	Sodium Phosphate Buffer (NaPi), pH 6.5, pH 7.0, pH 7.2 and pH 7.4
Product Number	A12-9184, A12-9185, A12-9527, A12-9528, A12-9529, A12-9530, A12-9531
Manufacturer:	Medicago AB Danmark Berga 755 98 Uppsala Sweden
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Emergency Phone:	112 (Sweden)

2. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Causes burns

3. Composition/Information on Ingredients

Product Name	CAS #	EC #	Annex I Index Number
Sodium Phosphate Buffer	7558-79-4	231-448-7	None

Formula Na₂HPO₄

Molecular weight: 141,6 g/mol

Synonyms Antisal 4* Dri-Tri * Emulsiphos 440/660 * Nutrifos STP * Sodium phosphate, anhydrous Sodium phosphate, tribasic * Tribasic sodium orthophosphate * Tribasic tribasic phosphate * Trinatriumphosphat (German) * Trisodium orthophosphate * Trisodium phosphate * Tromete

4. First-Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

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

AFTER INGESTION

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

5. Fire-Fighting Measures

EXTINGUISHING MEDIA

Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

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

SPECIAL RISKS

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

6. Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE (S) OF PERSONAL PRECAUTION (S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS: Moisture sensitive.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. 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 GEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9. Physical and Chemical Properties

Appearance	Physical state: Powder
Property	Value
pH	N/A
Molecular Weight	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous	N/A
Solubility	N/A

10. Stability and Reactivity

STABILITY

Stable.

Materials to Avoid: Strong acids.

Conditions to Avoid: Moisture.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine, Sodium/sodium oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11. Toxicological Information

RTECS NUMBER: TC9490000

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.
harmful if absorbed through the skin.

Skin Absorption: May be
Eye

Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

12. Ecological Information

No data available.

13. Disposal Considerations

SUBSTANCE DISPOSAL

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

RID/ADR

UN#: 3262

Class: 8

PG: III

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

IMDG

UN# 3262

Class: 8

PG: III

Proper Shipping Name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

Marine Pollutant: No

Severe Marine Pollutant: No

Technical Name: Required

IATA

UN# 3262

Class: 8

PG:III

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

Inhalation Packing Group I: No

Technical Name: Required

15. Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C
Corrosive.

R-PHRASES: 34

Causes burns.

S-PHRASES: 26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Not hazardous according to Directive 67/548/EEC.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 172

KBwS-Decision

16. Other Information

Precautions and Disclaimer: For laboratory use only. Not for drug, household or other uses.

Revision date: 2010-05-19

Notice to reader

To the best of our knowledge, the information given is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.