



MATERIAL SAFETY DATA SHEET

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Sodium phosphate, tribasic, Dodecahydrate

24500

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium phosphate, tribasic, Dodecahydrate

Catalog Numbers:

S/5760, S/5761

Synonyms:

Trisodium orthophosphate, sodium phosphate tribasic, tertiary sodium phosphate, trisodium phosphate dodecahydrate

Company Identification: Fisher Scientific UK

Bishop Meadow Road
Loughborough, Leicestershire
LE11 5RG, UK

For information, call: 01509 231166

For emergencies, call: 01509 231166

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	:	10101-89-0
Chemical Name	:	Tribasic sodium phosphate dodecahydrat
%	:	100
EINECS#	:	231-509-8
Haz Symbols	:	None Listed
Risk Phrases	:	None Listed

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye:

May cause severe eye irritation. May result in corneal injury.

Skin:

May cause severe irritation and possible burns.

Ingestion:

May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract.

Chronic:

Chronic inhalation may cause effects similar to those of acute inhalation.

SECTION 4 - FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

Material will not burn. Use extinguishing media appropriate to the surrounding fire.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Keep away from strong acids.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear impervious gloves.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: White or colorless crystalline solid

Odor: odorless

pH: 115 @ 0.1% solution

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 212 deg F

Freezing/Melting Point: 167 deg F

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 212 deg F

Solubility in water: 28.3% @ 59 F

Specific Gravity/Density: 1.6200 @ 68 F

Molecular Formula: $\text{Na}_3\text{O}_4\text{P} \cdot 12\text{H}_2\text{O}$

Molecular Weight: 380.12

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable.

Conditions to Avoid:

Stable..

Incompatibilities with Other Materials:

Not available.

Hazardous Decomposition Products:

Oxides of phosphorus, sodium oxide.

Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 10101-89-0: TC9575000

LD50/LC50:

CAS# 10101-89-0: Oral, rat: LD50 = 7400 mg/kg.

Carcinogenicity:

Tribasic sodium phosphate dodecahydrate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.*

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

IMO

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

RID/ADR

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing group: III

USA RQ: CAS# 10101-89-0: 5000 lb final RQ (Listed under Sodium phosphate, tribasic); 2270 kg final RQ (Li

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 10101-89-0: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 10101-89-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 10101-89-0 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 3/08/1995 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.