



Safety Data Sheet



RESPONSIBLE CARE[®]
OUR COMMITMENT TO SUSTAINABILITY

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: Nutrifos® B-Series
Reference Number: AST10026
Date: July 10, 2015

Use of the substance or preparation

Food Ingredient

Company/Undertaking Identification

ICL PERFORMANCE PRODUCTS LP
622 Emerson Road - Suite 500
St. Louis, Missouri 63141

Emergency telephone

In USA call CHEMTREC: 1 800 424 9300

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887.

In Canada call CANUTEC: 1 613 996 6666

General Information: 1 800 244 6169 (Worldwide)

2. HAZARDS IDENTIFICATION

GHS – This product does not meet the criteria for classification under GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>	<u>CAS No.</u>
Sodium Tripolyphosphate	7758-29-4
Sodium Hexametaphosphate	68915-31-1

4. FIRST AID MEASURES

General

Treatment is symptomatic and supportive.

Eye contact

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

Skin contact

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

Inhalation

Immediate first aid is not likely to be required. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam

Unsuitable extinguishable media

Non-combustible. No special requirement.

Exposure hazards

No special considerations.

Protective equipment

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

Environmental precautions

Small quantities: See below

Large quantities: See below

Method for cleaning up

In case of spill, sweep, scoop or vacuum and remove and place in containers. If possible, complete cleanup on a dry basis. After all practical dry clean up has been done, flush residual spill area with water.

7. HANDLING AND STORAGE

Handling:

Avoid breathing dust. Keep container closed. Use only with adequate ventilation.

Engineering measures

Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical

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exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult National Fire Protection Association (NFPA) Standard 91 for design of exhaust systems.

Storage

Store in cool, dry place to maintain product performance. Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the date provided in the MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

ACGIH TLV	10 mg/m ³ (inhalable) 8-hr TWA, 3 mg/m ³ (respirable) 8-hr TWA
OSHA PEL	15 mg/m ³ (total dust) 8-hr TWA, 5 mg/m ³ (respirable) 8-hr TWA

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

Respiratory protection

Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134 and or European Standard EN149.

Hand/Skin protection

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Eye protection

This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance: White Powder, granules or glass plates
- b) Odor: None
- c) Odor threshold: Undetermined.
- d) pH: Neutral to slightly basic (as a 1% solution @ 25 °C)
- e) Melting point/freezing point: STPP begins to melt incongruently @ 552 °C, completely melted @ 622 °C; SHMP melts at 628 °C
- f) Initial boiling point and boiling range: Undetermined.
- g) Flash point: Undetermined
- h) Evaporation rate: Undetermined.
- i) Flammability (solid, gas) : Undetermined.
- j) Upper/lower flammability or explosive limits: Undetermined.
- k) Vapor pressure: Undetermined.
- l) Vapor density: Undetermined.
- m) Relative density: Undetermined.
- n) Solubility(ies) : Complete

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- o) Partition coefficient: n-octanol/water: Undetermined.
- p) Auto-ignition temperature: Undetermined.
- q) Decomposition temperature: Undetermined.
- r) Viscosity: Undetermined.

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Product is stable under normal conditions of storage and handling.

Conditions to avoid

None known.

Materials to avoid

None known.

Hazardous decomposition

None known.

11. TOXICOLOGICAL INFORMATION

Laboratory data

This product has not been tested as a whole. Data from laboratory studies conducted by ICL Performance Products LP and from the scientific literature with the components are summarized below.

Sodium Tripolyphosphate

Single-dose acute toxicity studies indicate that this material is practically nontoxic orally (rat) and practically nontoxic after skin application (rabbit). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

Rats fed this material in their diet for two years exhibited decreased growth, increased kidney/body weight ratios, and kidney changes. No birth defects were noted in rabbits given this material orally during pregnancy. No effects were seen on the ability of male and female rats to reproduce when fed this material for three successive generations. This material has generally produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells. Genetic changes were reported in a standard test using yeast cells.

Sodium Hexametaphosphate

Single-dose acute toxicity studies indicate that this material is practically nontoxic orally (rat) and practically nontoxic after skin application (rabbit). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

Rats fed this material in their diet for one month showed decreased growth, increased kidney, lung and spleen weight, and kidney damage. Rats fed this material for two years also showed decreased weight gain, increased kidney weight, and kidney changes. No increase in tumors was reported. No adverse effects in reproductive capacity were reported in a multigeneration study using rats fed this material.

12. ECOLOGICAL INFORMATION**Environmental toxicity**

ICL Performance Products LP has not conducted environmental toxicity studies with this product, and no data was retrieved in a search of the available scientific literature. Available data for components suggest that this material would be practically nontoxic to invertebrates and fish (LC_{50} or $EC_{50} > 100$ mg/L).

Environmental fate

ICL Performance Products LP has not conducted biodegradation studies with this product since when dissolved / hydrolyzed in water it yields completely mineralized materials.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Road/Rail, Sea and Air

IMDG/UN	Not regulated.
ICAO/IATA	Not regulated.
RID/ADR	Not regulated.
Canadian TDG	Not regulated.
US DOT	Not regulated.

15. REGULATORY INFORMATION**Chemical Inventory**

USA TSCA:	Listed
Canada DSL:	Listed
EC:	Listed

Other information

WHMIS Classification: Not Controlled

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370):	None
Section 302 Extremely Hazardous Substances:	None
Section 313 Toxic Chemical(s):	None

CERCLA Reportable Quantity: Not listed

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

16. OTHER INFORMATION

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	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	F F = safety glasses, synthetic apron, gloves, dust respirator

Reason for revision: Sections 1, 3, 8, 9, 11, 12, 15 Supersedes MSDS dated: May 13, 2015

Nutrifos® is a registered trademark of ICL Performance Products LP

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