

## TruPhos MeriStim

### SECTION 1. IDENTIFICATION

|   |  |
|---|--|
| <b>Product Identifier</b>               | TruPhos MeriStim   |
| <b>Other Means of Identification</b>    | Fertilizer   |
| <b>Recommended Use</b>                  | The user should seek the advice of the county agricultural representative or a professional agricultural consultant. |
| <b>Restrictions on Use</b>              | None known.  |
| <b>Manufacturer/Supplier Identifier</b> | NutriAg Limited, 39 Gail Grove, Toronto, Ontario, M9M 1M5  |
| <b>Emergency Phone No.</b>              | Canutec, 613-996-6666, 24 hours  |
| <b>SDS No.</b>                          | 002  |
| <b>Date of Preparation</b>              | April 29, 2015   |

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Corrosive to metals - Category 1; Eye irritation - Category 2

#### Label Elements



Signal Word:

Warning

Hazard Statement(s):

May be corrosive to metals.

Causes serious eye irritation.

Contains 27.5-30.5% of ingredients of unknown toxicity (inhalation).

Contains 3-4% of ingredients of unknown toxicity (dermal).

Precautionary Statement(s):

Prevention:

Keep only in original packaging.

Wash hands and skin thoroughly after handling.

Wear eye protection/face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Absorb spillage to prevent material damage.

Storage:

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Other Hazards

Hazard Not Otherwise Classified (HNOC).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

| Chemical Name                               | CAS No.    | %        | Other Identifiers | Other Names |
|---|------------|----------|-------------------|-------------|
| Phosphoric acid (85%)                       | 7664-38-2  | 9.5-10.5 | N/A               |             |
| Calcium dihydrogen phosphate                | 7758-23-8  | 15-16    | N/A               |             |
| Phosphoric acid, zinc salt (2:1), dihydrate | 13598-37-3 | 3-4      | N/A               |             |

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air.

#### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

#### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

### Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Eyes, skin, respiratory system.

#### Special Instructions

Not applicable.

#### Medical Conditions Aggravated by Exposure

Dermatitis.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### Unsuitable Extinguishing Media

Not applicable.

### Specific Hazards Arising from the Product

Does not burn.

### Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Transfer equipment should be constructed of chemical-resistant plastic or stainless steel. Do not store in aluminum or steel containers. Wear chemically protective equipment during handling. Use in a well-ventilated area. Do not breathe vapours or mists. Avoid contact with eyes, skin and clothing. Do not wear contact lenses while handling this material. Wash thoroughly after handling. Keep away from extreme heat and flame. Use caution when opening containers.

### Conditions for Safe Storage

Store in an area that is: ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| Chemical Name         | ACGIH TLV® |         | OSHA PEL |         | AIHA WEEL |     |
|-----------------------|------------|---------|----------|---------|-----------|-----|
|                       | TWA        | STEL    | TWA      | Ceiling | 8-hr TWA  | TWA |
| Phosphoric acid (85%) | 1 mg/m3    | 3 mg/m3 |          |         |           |     |

### Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Not required, if used as directed.

#### Respiratory Protection

Not required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

|                              |   |
|------------------------------|---|
| Appearance                   | Clear colourless.                                 |
| Odour                        | Odourless   |
| Odour Threshold              | Not available                                     |
| pH                           | 2 - 3   |
| Melting Point/Freezing Point | Not available (melting); Not available (freezing) |
| Initial Boiling Point/Range  | Not available                                     |
| Flash Point                  | Not available                                     |
| Evaporation Rate             | Not available                                     |

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|---|--|
| <b>Flammability (solid, gas)</b>                        | Not available                                      |
| <b>Upper/Lower Flammability or Explosive Limit</b>      | Not available (upper); Not available (lower)       |
| <b>Vapour Pressure</b>                                  | Not available                                      |
| <b>Vapour Density (air = 1)</b>                         | Not available                                      |
| <b>Relative Density (water = 1)</b>                     | 1.30 - 1.31 at 20 °C (68 °F)                       |
| <b>Solubility</b>                                       | Soluble in water                                   |
| <b>Partition Coefficient, n-Octanol/Water (Log Kow)</b> | Not available                                      |
| <b>Auto-ignition Temperature</b>                        | Not available                                      |
| <b>Decomposition Temperature</b>                        | Not available                                      |
| <b>Viscosity</b>  | Not available (kinematic); Not available (dynamic) |
| <b>Other Information</b>                                |  |
| <b>Physical State</b>                                   | Liquid   |
| <b>Surface Tension</b>                                  | Not available                                      |

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Freezing. Incompatible materials.

### Incompatible Materials

Incompatible with aluminum and steel.

### Hazardous Decomposition Products

During a fire, or when heated to decomposition, irritating/toxic phosphorus oxides, such as phosphorus pentoxide may be generated.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; skin absorption; eye contact; ingestion.

### Acute Toxicity

| Chemical Name                               | LC50                                      | LD50 (oral)             | LD50 (dermal)         |
|---|---|-------------------------|-----------------------|
| Phosphoric acid (85%)                       | 0.84 mg/L (rabbit) (4-hour exposure)      | 1530 mg/kg (rat)        | 2740 mg/kg (rabbit)   |
| Calcium dihydrogen phosphate                | > 2.6 mg/L (rat) (4-hour exposure) (dust) | 3986 mg/kg (female rat) | > 2000 mg/kg (rabbit) |
| Phosphoric acid, zinc salt (2:1), dihydrate |   | 300-2000 mg/kg (rat)    |                       |

### Skin Corrosion/Irritation

Animal tests show very mild irritation.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

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## STOT (Specific Target Organ Toxicity) - Single Exposure

### Inhalation

Not irritating to the respiratory tract, unless it is introduced into the atmosphere as a spray or mist.

### Skin Absorption

May be harmful if absorbed through the skin.

### Ingestion

May be harmful if swallowed.

## Aspiration Hazard

Not classified.

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

## Respiratory and/or Skin Sensitization

Not classified.

## Carcinogenicity

Not classified.

## Reproductive Toxicity

### Development of Offspring

Not Classified.

### Sexual Function and Fertility

Not Classified.

### Effects on or via Lactation

Not Classified.

## Germ Cell Mutagenicity

Not classified.

## Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

May cause long lasting harmful effects to aquatic life.

### Acute Aquatic Toxicity

| Chemical Name                               | LC50 Fish   | EC50 Crustacea | ErC50 Aquatic Plants | ErC50 Algae |
|---|---|----------------|----------------------|-------------|
| Phosphoric acid (85%)                       | 138 mg/L (96-hour)  |                |                      |             |
| Phosphoric acid, zinc salt (2:1), dihydrate | 0.14-0.26 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour) |                |                      |             |

### Persistence and Degradability

May cause long-term adverse effects in the environment.

### Bioaccumulative Potential

Not Established.

### Mobility in Soil

Not established.

### Other Adverse Effects

There is no information available.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose in accordance with all applicable federal, provincial, and local regulations.

## SECTION 14. TRANSPORT INFORMATION

| Regulation   | UN No. | Proper Shipping Name     | Transport Hazard Class(es) | Packing Group |
|--------------|--------|--------------------------|----------------------------|---------------|
| Canadian TDG | 1805   | Phosphoric Acid Solution | 8                          | III           |
| IATA (Air)   | 1805   | Phosphoric Acid Solution | 8                          | III           |
| US DOT       | 1805   | Phosphoric Acid Solution | 8                          | III           |

**Other Information** IMDG: UN# 1805 Phosphoric Acid Solution, Class 8, PGIII

### Proof of Dangerous Goods Classification

**Date of Classification** November 07, 2019

**Classification** corrosive to metals

**Classification Method** 49 CFR 173.137 and UN Manual of Tests and Criteria, Section 37

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** NutriAg Limited

**Phone No.** 416-636-1555

**Date of Preparation** April 29, 2015

**Date of Last Revision** November 07, 2019

**Revision Indicators** Version 3.1

The following SDS content was changed on December 16, 2015:

SECTION 2. HAZARD IDENTIFICATION; Classification; Label Elements.

SECTION 11. TOXICOLOGICAL INFORMATION; Acute Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Irritation.

The following SDS content was changed on June 08, 2016:

SECTION 14. TRANSPORT INFORMATION; Shipping Information.

The following SDS content was changed on November 07, 2019:

SECTION 2. HAZARD IDENTIFICATION; Classification; Label Elements.

SECTION 14. TRANSPORT INFORMATION; Shipping Information; Other Information; Proof of Dangerous Goods Classification; Date of Classification; Classification; Classification Method.

### References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

### Disclaimer

The information contained herein is offered only as a guide to the handling of the specific material and has been prepared in good faith by technically knowledgeable personnel.

No warranty of any kind is given or implied and NutriAg Ltd. will not be liable for any damages,

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losses, injuries or consequential damage, which, may result from the use or reliance on any information contained herein.

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