

# TruPhos Platinum

## SECTION 1. IDENTIFICATION

|                                      |  |
|--------------------------------------|--|
| <b>Product Identifier</b>            | TruPhos Platinum   |
| <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</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>                       | 0157   |
| <b>Date of Preparation</b>           | December 12, 2016  |

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Corrosive to metals - Category 1; Eye irritation - Category 2A; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Carcinogenicity - Category 1B; Reproductive toxicity - Category 1B; Aquatic hazard (Acute) - Category 2

### Label Elements



Signal Word:

Danger

Hazard Statement(s):

- H290 May be corrosive to metals.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H401 Toxic to aquatic life.

Precautionary Statement(s):

Prevention:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P234 Keep only in original packaging.
- P261 Avoid breathing mist, spray.
- P264 Wash hands and skin thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear eye protection/face protection.
- P284 In case of inadequate ventilation wear respiratory protection (NIOSH approved air-purifying respirator with an appropriate cartridge).

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see supplemental first aid instruction on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### 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  | 17.5-18.5 | N/A               |             |
| Iron(II) sulfate (1:1), heptahydrate        | 7782-63-0  | <1        | N/A               |             |
| Phosphoric acid, zinc salt (2:1), dihydrate | 13598-37-3 | 2.5-3.5   | N/A               |             |
| Cobalt(II) chloride, hexahydrate            | 7791-13-1  | 0.1-0.3   | N/A               |             |

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

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 inhaled: respiratory sensitizer. May cause asthma or an asthma-like reaction in some people. If on skin: skin sensitizer. May cause an allergic skin reaction in some people.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Eyes, skin, respiratory system.

##### Special Instructions

Not applicable.

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## 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

None known.

### Specific Hazards Arising from the Product

Does not burn.

In a fire, the following hazardous materials may be generated: irritating/toxic phosphorus oxides, such as phosphorus pentoxide.

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

No special precautions are necessary.

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

## 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 |          |         |           |     |
| Cobalt(II) chloride, hexahydrate     | 0.02 mg/m3 |         |          |         |           |     |
| Iron(II) sulfate (1:1), heptahydrate | 1 mg/m3    |         |          |         |           |     |

### Appropriate Engineering Controls

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

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## Individual Protection Measures

### Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

### Respiratory Protection

Not required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

|  |  |
|--|--|
| Odour  | Odourless  |
| Odour Threshold                                  | Not available                                      |
| pH   | < 2  |
| Melting Point/Freezing Point                     | Not available (melting); Not available (freezing)  |
| Boiling point/Initial boiling point              | Not available                                      |
| Boiling Range                                    | Not available                                      |
| Flash Point                                      | Not available                                      |
| Evaporation Rate                                 | Not available                                      |
| Flammability (solid, gas)                        | Not available                                      |
| Upper/Lower Flammability or Explosive Limit      | Not available (upper); Not available (lower)       |
| Vapour Pressure                                  | Not available                                      |
| Vapour Density (air = 1)                         | Not available                                      |
| Relative Density (water = 1)                     | 1.26 - 1.27 at 20 °C (68 °F)                       |
| Solubility                                       | Soluble in water                                   |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available                                      |
| Auto-ignition Temperature                        | Not available                                      |
| Decomposition Temperature                        | Not available                                      |
| Viscosity  | Not available (kinematic); Not available (dynamic) |
| <b>Other Information</b>                         |  |
| Physical State                                   | Liquid   |

## 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. Heat. 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.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; 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) |
| Cobalt(II) chloride, hexahydrate            |                                      | 766 mg/kg (rat)      | > 2000 mg/kg (rat)  |
| Iron(II) sulfate (1:1), heptahydrate        |                                      | > 2000 mg/kg (rat)   |                     |
| Phosphoric acid, zinc salt (2:1), dihydrate |                                      | 300-2000 mg/kg (rat) |                     |

### Skin Corrosion/Irritation

Not a skin irritant.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

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

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

No information was located.

#### Ingestion

Harmful if swallowed.

### Aspiration Hazard

Not known to be an aspiration hazard.

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

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

### Respiratory and/or Skin Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

### Carcinogenicity

May cause cancer.

### Reproductive Toxicity

#### Development of Offspring

May harm the unborn child.

#### Sexual Function and Fertility

May cause effects on sexual function and/or fertility.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

Not known to be a mutagen.

### Interactive Effects

No information was located.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful 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)  |                |                      |             |
| Cobalt(II) chloride, hexahydrate            | 22-48 mg/L (Pimephales promelas (fathead minnow); 96-hour)    |                |                      |             |
| Iron(II) sulfate (1:1), heptahydrate        | 0.41 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.

## 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 | Class 8                    | III           |
| IATA (Air)   | 1805   | Phosphoric Acid Solution | Class 8                    | III           |
| US DOT       | 1805   | Phosphoric Acid Solution | Class 8                    | III           |

**Environmental Hazards** Environmentally Hazardous Substance

**Special Precautions** Please note: None known.

### Transport in Bulk according to International Maritime Organization Instruments

Not applicable

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

### Proof of Dangerous Goods Classification

**Date of Classification** July 13, 2021

**Classification** corrosive to metals

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

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## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

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

All ingredients are listed, or not specifically listed.

##### CEPA - National Pollutant Release Inventory (NPRI)

(Cobalt(II) chloride, hexahydrate) Part 1A.

#### USA

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

All ingredients are listed, or not specifically listed.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** NutriAg Limited

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

**Date of Preparation** December 12, 2016

**Date of Last Revision** August 17, 2021

**Revision Indicators** Version 2.2

The following SDS content was changed on August 17, 2021:  
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information.  
SECTION 16. OTHER INFORMATION; Date of Last Revision.

**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).

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