

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

SECTION 1: Identification

1.1 GHS Product identifier

Product name Triple Super Phosphate (TSP)

Product number 10647

1.3 Recommended use of the chemical and restrictions on use

Crop Nutrient.

1.4 Supplier's details

Name Master Plant-Prod Inc.
Address 314 Orenda Rd.
Brampton ON L6T 1G1
Canada

Telephone 905-793-8000
email mppi@plantprod.com

1.5 Emergency phone number

905-793-8000
FOR EMERGENCIES INVOLVING DANGEROUS GOODS Call CANUTEC's 24-Hour
Number 1-888-CANUTEC (226-8832) (North American use) and/or 1-613-996-6666
(International use)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: WHMIS as amended (12.15.2022)

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H314
H318

Causes severe skin burns and eye damage
Causes serious eye damage

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264+P265	Wash hands and skin thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see information on this safety datasheet).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Component	CAS no.	Concentration
Superphosphates, concd	65996-95-4	73 - 77 % (weight)
Phosphoric acid	7664-38-2	1 - 5 % (weight)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Move to fresh air. Get medical advice or attention if you feel unwell or are concerned. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.
In case of skin contact	Immediately take off all contaminated clothing. Rinse skin with water/shower for at 15-20 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.
In case of eye contact	Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Immediately call a Poison Centre or doctor.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

5.1 Suitable extinguishing media

Carbon dioxide (CO₂), powder, alcohol-resistant foam, water spray.
DO NOT use water jet.

5.2 Specific hazards arising from the chemical

Does not burn.

In a fire, the following hazardous materials may be generated: sulphur oxides, phosphorus oxides, hydrogen fluoride, fluorinated compounds.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Avoid dust formation. Knock down/dilute dust cloud with water spray.

Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

For emergency responders: Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Prevent moisture contact.

Heat and ignition sources: Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight.

Packaging materials: Keep only in the original container.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Phosphoric acid (CAS: 7664-38-2)

TWA [Phosphoric acid] (Inhalation): 1 mg/m³; AU (AU/SWA)

STEL [Phosphoric acid] (Inhalation): 3 mg/m³; AU (AU/SWA)

IOELV-LTEL [Orthophosphoric acid] (Inhalation): 1 mg/m³; EU (EU/OSHA)

List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL [Orthophosphoric acid] (Inhalation): 2 mg/m³; EU (EU/OSHA)

List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

PEL [Phosphoric acid] (Inhalation): 1 mg/m³; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL [Phosphoric acid] (Inhalation): 1 mg/m³, (ST) 3 mg/m³; US (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL [Phosphoric acid] (Inhalation): 1 mg/m³, (ST) 3 mg/m³; US (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Apply measures to prevent dust explosions. Ensure equipment is adequately earthed.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear protective safety glasses.

Skin protection

Wear suitable protective clothing, including gloves.

Body protection

Wear suitable protective clothing.

Respiratory protection

Use an appropriate NIOSH approved particulate respirator. Monitor dust levels within working area and ensure adequate ventilation.

Thermal hazards

Not required for normal conditions of use. Use dedicated equipment if required.

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

Environmental exposure controls

Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Granules.
Color	Grey.
Odor	Odourless.
Odor threshold	Not applicable
Melting point/freezing point	> 200 °C Decomposes before melting
Boiling point or initial boiling point and boiling range	Not available
Flammability	The product is not flammable.
Lower and upper explosion limit/flammability limit	Not available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	> 200 °C Bulk density
Oxidizing properties	Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
pH	3 - 3,5 (10%)
Kinematic viscosity	Not applicable
Solubility	Water: 54 g/l @20°C
Partition coefficient n-octanol/water (log value)	Not available
Vapor pressure	0,00000084 Pa @ 20°C
Evaporation rate	Not available
Density and/or relative density	900 - 1200 @20°C
Relative vapor density	Not available
Particle characteristics	Not available

Further safety characteristics (supplemental)

Inorganic.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions of use.

10.2 Chemical stability

Stable under recommended storage conditions. Hygroscopic.

10.3 Possibility of hazardous reactions

None expected under normal conditions of storage and use.

10.4 Conditions to avoid

Avoid dust formation. Prevent moisture contact. Safe handling: see section 7.

10.5 Incompatible materials

Alkali. Urea. Safe handling: see section 7.

10.6 Hazardous decomposition products

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Review Section 5 (Specific Hazards Arising from the Product) for hazardous materials generated in a fire.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not classified (Based on available data, the classification criteria are not met.)

Superphosphates, concd. (65996-95-4): LD50/oral/rat > 5000 mg/kg

Phosphoric acid (7664-38-2): LD50/oral/rat 1530 mg/kg

LD50/dermal/rabbit 2730 mg/kg

LC50/inhalation/4h/rat > 850 mg/m³ (Exposure time: 1 h)

Skin corrosion/irritation

Repeated or prolonged exposure can irritate or burn the skin.

Serious eye damage/irritation

Irritation or burn could occur.

Respiratory or skin sensitization

No information was located.

Germ cell mutagenicity

No information was located.

Carcinogenicity

No information was located.

Reproductive toxicity

No information was located.

Specific target organ toxicity (STOT) - single exposure

No information was located.

Specific target organ toxicity (STOT) - repeated exposure

No information was located.

Aspiration hazard

No information was located.

SECTION 12: Ecological information

Toxicity

Not hazardous. According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Persistence and degradability

No data available on product.

Bioaccumulative potential

No data available on product.

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

No data available on product.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Non-Domestic Substances List (NDSL)

Chemical name: Superphosphates, concd.

CAS number: 65996-95-4

US EPA TSCA public inventory

Chemical name: Superphosphates, concd

CAS number: 65996-95-4

Massachusetts Right To Know Components

Phosphoric acid

CAS number: 7664-38-2

New Jersey Right To Know Components

Phosphoric acid

CAS number: 7664-38-2

Pennsylvania Right To Know Components

Phosphoric acid

CAS number: 7664-38-2

Triple Super Phosphate (TSP)

SAFETY DATA SHEET

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Canadian Domestic Substances List (DSL)

Chemical name: Phosphoric acid

CAS number: 7664-38-2

EU Table of Harmonised Entries (Annex VI to CLP)

Chemical name: Phosphoric acid

CAS number: 7664-38-2

US EPA TSCA public inventory

Chemical name: Phosphoric acid

CAS number: 7664-38-2

SZW-lijst van kankerverwekkende stoffen

TSP is listed

SZW-lijst van mutagene stoffen

TSP is listed

SECTION 16: Other information

16.1 Further information/disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither Master Plant-Prod Inc., nor any of its distributors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of any product is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

16.2 Preparation information

Prepared By MPPI Technical Department. Phone No. 905-793-8000

Date of Preparation: 11/12/2025