SAFETY DATA SHEET

TRIPLE SUPERPHOSPHATE

Identification of the Material & Supplier
Product Name: Triple Superphosphate
Other Names: TSP, GTSP, 0-46-0, Calcium Phosphate Monobasic
Recommended Use: Fertilizer
Supplier: Summit Fertilizers
29 Ocean St
Kwinana Beach WA 6167
Telephone: 9439 8999

Hazards Identification
Hazards Classification TSP is not classified as hazardous according to Safe Work Australia criteria
Risk Phrase TSP is not classified as a Dangerous Good according to the ADG Code

Composition/Information on Ingredients
Chemical Identity Ca(H_2PO_4)_2.H_2O
Proportion of Ingredients 98% Phosphate as P_2O_5 46.9%
CAS Number 7664-93-9

First Aid Measures
Eye Contact Immediately flush with fresh water for at least 15 minutes. Hold eyes open while flushing with water. Seek medical attention if irritation persists.
Skin Contact Immediately remove contaminated clothing and shoes. Flush skin with fresh water for at least 15 minutes. Use soap if available or follow by flushing with soap and water. Do not reuse contaminated clothing without laundering. Seek medical attention if irritation persists.
Inhalation Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Seek medical attention immediately.
Ingestion If victim is conscious and alert, give plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention immediately.

Fire Fighting Measures
Flammability TSP is non flammable and does not support combustion.
Suitable Extinguishing Media Small fires: water spray, foam, dry chemical or CO_2
Large fires: water spray, fog or foam
Hazards from Combustion Products Wear self-contained breathing apparatus with full protective clothing.
Hazchem Code None allocated.

Accidental Release Measures
Emergency Procedures Isolate the area and deny entry to nonessential personnel. Emergency responders and/or clean up personnel should wear appropriate protective clothing and equipment.
Methods and Materials for Containment & Cleanup Prevent from entering drains or waterways. Collect material promptly. Minimise dust generation during clean up operation.
Handling & Storage
Precautions for Safe Handling
None listed

Conditions for Safe Storage
Store in a cool, dry, well ventilated location. Prevent product from getting wet as it will cause caking and handling problems.

Storage Incompatibilities
Exposure Controls/Personal Protection
National Exposure Controls
No specific official limit. ACGIH recommended value for inhalable particulate TLV/TWA: 10mg/m³

Engineering Controls
Avoid dusty areas.

Personal Protective Equipment
Wear gloves, long sleeve shirt and long trousers to prevent skin contact. In dusty areas use a P2 respirator and wear chemical safety glasses to prevent eye contact.

Physical & Chemical Properties
Appearance
Brown or grey granulated solid material.

Odour
Slight odour.

pH of 10% Solution
3

Vapour Pressure
Not applicable

Boiling Point
Not applicable

Melting Point
Not applicable

Solubility
85% in water at 20°C

Specific Gravity
2.05

Bulk Density
1.1t/m³

Stability & Reactivity
Stability
Stable under normal temperatures and pressures

Reactivity
Hazardous polymerization will not occur.

Incompatible Materials
Extreme temperatures

Decomposition Products
PO₄

Toxicological Information
Health Effects
Not found to be toxic by oral or dermal exposure as defined by OSHA. Inhalation of dust may cause irritation to the nose and upper respiratory tract. Prolonged skin contact may cause some irritation, including redness and itching. Eye contact may cause irritation, redness and pain. Ingestion of large amounts may give rise to gastro-intestinal irritation with symptoms such as nausea, vomiting, diarrhea.

Toxicity Data
LD50 (oral): 5,000-6,000mg/kg (sheep)

Ecological Information
Ecotoxicity
Aquatic: Low toxicity to aquatic life.
Fish 96 hour LC₅₀: 1,560-5,900 mg/L
Daphnia 72 hour EC₅₀: 1,790-1,825 mg/L
Algae, OECD Guidelines 201 (green algae, Selenastrum)
No toxicity at up to 87.6 mg/L; stimulation observed at 42.6 mg/L and higher.
Non-toxic to aquatic organisms as defined by USEPA

Mobility
May leach into groundwater if released to soil. Will not evaporate readily.

Persistence & Degradability
Phosphates are converted to calcium or iron/aluminium phosphates or are incorporated into the organic soil matter.

Bioaccumulative Potential
Unknown
Disposal Considerations
Dispose of on a farm, or authorized waste facility in accordance with statutory requirements. May be broadcast on farm as fertilizer using proper agriculture and soil management.

Transport Information
UN Number
None allocated
UN Proper Shipping Name
None allocated
Class & Subsidiary Risk
None allocated
Packing Group
None allocated
Hazchem Code
None allocated

Regulatory Information
Australian Regulatory Information
A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

Other Information
Key/Legend
NOHSC  National Occupational Health and Safety Commission
USEPA  United States Environmental Protection Authority
SUSDP  Standard for the Uniform Scheduling of Drugs and Poisons
ACGIH  American Conference of Government Industrial Hygienists
OECD  Organisation for Economic Cooperation and Development
ES-TWA  Exposure Standard – Time weighted average
ES-STEL  Exposure Standard – Short term exposure level
ES-Peak  Exposure Standard – Peak level
LDLo  The lowest dose in an animal study in which lethality occurred.
LD50  Lethal dose 50. The single dose of a substance that causes death of 50% of an animal population from exposure other than inhalation
t/m³  Tonnes per cubic metre
mg/m³  Milligrams per cubic metre
mg/kg  Milligrams per kilogram
pH  Hydrogen ion concentration on a scale of 0-14

Disclaimer
The information contained in this SDS is offered in good faith as accurate but does not purport to be all-inclusive. Health and safety precautions in this SDS may not be adequate for all individuals and/or situations. It is the user’s responsibility to determine the suitability of any material for a specific purpose, adopt such precautions as may be necessary and comply with all applicable laws and regulations.
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