

GENESIS Super-Phos 24

SAFETY DATA SHEET

GENESIS AGRI-PRODUCTS
2522 OLD TOWN ROAD
UNION GAP, WASHINGTON 98903
Emergency Phone # (509) 452-0302


1. IDENTIFICATION

PRODUCT IDENTIFIER: Super-Phos 24 **CHEMICAL NAME:** Inorganic salt based Fertilizer
SYNONYMS: Phosphate Fertilizers **GENERIC DESCRIPTION:** Fertilizer
RECOMMENDED USE: Ag Product – Fertilizer **RESTRICTIONS ON USE:** None known
CHEMICAL FORMULA: Calcium Phosphate, Calcium sulfate, Zinc phosphate, Zinc oxide

MANUFACTURER INFORMATION

COMPANY NAME: GENESIS AGRI-PRODUCTS
ADDRESS: 2522 OLD TOWN ROAD
UNION GAP, WA 98903
TELEPHONE: (509) 575-8382
EMERGENCY PHONE:
US: 1-800-424-9300 (CHEMTREC)
INTERNATIONAL: 1-202-483-7616

2. HAZARDS IDENTIFICATION

OSHA REGULATED COMPONENTS: None Known **HEALTH HAZARDS:** Causes skin irritation,
Causes eye irritation. Harmful if swallowed.
LABEL ELEMENTS:  **SIGNAL WORD:** Warning

HAZARD STATEMENT: Causes Serious eye damage. Causes skin irritation. Harmful if swallowed.

GHS Classification

Carcinogenicity: Not available.
H302: Acute oral Toxicity 4, Harmful if swallowed.

H315: Skin Irritant 2, Causes skin irritation.

H320: Eye Irritant 2B, Causes eye irritation.

PRECAUTIONARY STATEMENTS

PREVENTION - Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear gloves and eye/face protection when handling.

RESPONSE - If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Immediately call a POISON CONTROL CENTER and get medical attention.

STORAGE - Store locked up.

DISPOSAL - Dispose of contents/container to an approved waste disposal plant

POTENTIAL HEALTH EFFECTS

Carcinogenicity: No known carcinogens present.

3. COMPOSITION/INGREDIENTS

This product is a proprietary blend of plant nutrients derived from the components listed below. With a chemical analysis of 0-24-0-20 Ca- 6 S- 12 Zn.

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>Percentage by Weight</u>
Calcium phosphate	12167-74-7	Proprietary
Calcium sulfate	7778-18-9	Proprietary
Zinc phosphate	7779-90-0	Proprietary
Zinc oxide	1314-13-2	Proprietary

4. FIRST-AID MEASURE

SYMPTOMS AND EFFECTS OF EXPOSURE & INSTRUCTIONS FOR SPECIAL MEDICAL TREATMENT

SKIN CONTACT: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

EYE CONTACT: Immediately flush with large quantities of water for at least 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention immediately.

INHALATION: Remove victim from contaminated atmosphere. If breathing is labored, administer Oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

INGESTION (SWALLOWING): If victim is conscious, give 2 to 4 glasses of water. Never administer fluids to, or initiate vomiting on an unconscious person. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING AGENTS:

CO₂ extinguishing powder, heavy water stream, or fight larger fires with alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA:

None known.

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

PHYSICAL HAZARDS:

Closed containers exposed to extreme heat can rupture due to expanding gases and building pressure.

CHEMICAL HAZARDS:

Heating to dryness may cause the release of phosphine gas which is highly combustible. Oxides of calcium, phosphorous, sulfur, and zinc may form.

ADVICE FOR FIREFIGHTERS

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES

SPILLS OR RELEASES

PERSONAL PRECAUTIONS: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

ENVIRONMENTAL PRECAUTIONS: Keep out of “waters of the United States” because of potential aquatic toxicity (See Section 12)

METHODS OF CONTAINMENT:

SMALL RELEASE: Confine and absorb small releases with sand, earth or other inert absorbent.

LARGE RELEASE: Stop release if safe to do so. Dike spill area with earth, sand or other inert absorbent to prevent runoff into surface waterways (potential aquatic toxicity), storm drains or sewers.

METHODS OF CLEANUP:

SMALL RELEASE: Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.

LARGE RELEASE: Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin.

STORAGE: Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH OCUPATIONAL EXPOSURE LIMITS:

Zinc oxide (1314-13-2)

OSHA TWA: 5mg/m3 (fume)

OSHA STEL: 10mg/m3 (fume)

OSHA TWA: 10mg/m3 (total dust)

EXPOSURE CONTROLS

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION:	Chemical goggles and a full face shield.
SKIN PROTECTION:	Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.
RESPIRATORY PROTECTION:	None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
HYGIENE CONSIDERATION:	Keep away from foodstuffs, beverages, and feed, immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work, avoid contact with the eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE:	Solid
COLOR:	Clear to light yellow
ODOR:	Odorless
ODOR THRESHOLD:	Not available.
pH:	7-10
MELTING POINT/FREEZING POINT:	Not available.
INITIAL BOILING POINT/BOILING RANGE:	Not available.
FLASH POINT:	Not available.
EVAPORATION RATE:	(Ether=1): Not available.
FLAMMABILITY (SOLID,GAS):	Not available.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	
FLAMMABILITY LIMIT-LOWER (%)	Not available.
FLAMMABILITY LIMIT-UPPER (%)	Not available.
EXPLOSIVE LIMIT-LOWER (%)	Not available.
EXPLOSIVE LIMIT-UPPER (%)	Not available.
VAPOR PRESSURE:	Not available.
VAPOR DENSITY:	Not available.

RELATIVE DENSITY:	Not available.
SOLUBILITY(IES):	
SOLUBILITY IN WATER:	Not available.
PARTITION COEFFICIENT (N-OCTANO/WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
THERMAL DECOMPOSITION:	Not available.
VISCOSITY:	Not available.
SOLVENT CONTENTS:	
ORGANIC SOLVENTS:	Not available.
VOC CONTENT:	Not available.
SOLID CONTENT:	Not available.
OTHER INFORMATION:	
DISPERSION PROPERTIES:	See solubility in water.
WATER/OIL DIST. COEFF:	Not available.
%VOLATILE (BY WT.):	Not available.
VOLATILITY	Not available.
SPECIFIC GRAVITY	Not available.

10. STABILITY AND REACTIVITY

REACTIVITY:	Oxides of zinc can react explosively with magnesium when heated. Avoid contact with strong acids, bases, oxidizing, and reducing agents.
CHEMICAL STABILITY:	This is a stable product under normal (ambient) temperature and pressure.
POSSIBILITY OF HAZARDOUS REACTIONS:	Oxides of zinc can react explosively with magnesium when heated.
CONDITIONS TO AVOID:	High heat or fire conditions. Do not allow to evaporate to dryness.
INCOMPATIBILITY (Material to Avoid):	Avoid contact with combustible, organic, or other readily oxidizable materials. Avoid contact with strong acids and chlorates or other strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Material will not burn, but if involved in a fire, oxides of Calcium, carbon, phosphorous, sulfur, and zinc may be generated. Exposure to heat may liberate zinc fumes.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON THE TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

Zinc phosphate (7779-90-0)

LD50 Oral: 40.5mg/kg (rat)

LD50 Dermal: 2,000-5,000mg/kg (rabbit)

Zinc oxide (1314-13-2)

LD50 Oral: 7,950mg/kg (mouse)

LD50 Oral: >5g/kg (rat)

LC50 Inhalation: >5.7mg/L/4hrs

IF IHNALED:	No data available.
IF IN EYES:	Causes eye irritation.
IF ON SKIN:	Causes skin irritation.
IF SWALLOWED:	Harmful if swallowed.
CARCINOGENICITY:	Not listed in NTP, IRAC or by OSHA
TERATOLOGY:	No data available.
REPRODUCTION:	No data available.
MUTAGENICITY:	No data available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Zinc phosphate (7779-90-0)

LD50 Oral: 12.9mg/kg (Northern bobwhite quail)

LD50 Oral: 33.1mg/kg (Squirrel)

LD50 Dietary: 2,885ppm/ 8d (Mallard duck)

Zinc oxide (1314-13-2)

LC50/96hrs: >320ppm (Bluefill sunfish)

LC50/96hrs: 1.1ppm (Rainbow trout)

LC50/48hrs: 98ug/L (Daphnia)

AQUATIC TOXICITY:	Avoid release into any water systems including sewers. Runoff from fire control or dilution water may cause pollution.
PERSISTENCE & DEGRADIBILITY:	No data available.
BIOACCUMULATIVE POTENTIAL:	This product is not bioaccumulative.
MOBILITY IN SOIL:	No data available.
OTHER ADVERSE EFFECTS:	No data available.

GENERAL NOTES: Do not allow undiluted or large quantities to reach ground water, water courses, or sewage systems.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

14. TRANSPORT INFORMATION

BASIC SHIPPING DESCRIPTION:

PROPER SHIPPING NAME: Super-Phos 24
HAZARD CLASSES: Not available.
IDENTIFICATION NUMBER: Not available.
PACKING GROUP: Not available.
HAZARDOUS SUBSTANCE: No
MARINE POLLUTANT: No

ADDITIONAL INFORMATION:

Other DOT Requirements:

REPORTABLE QUANTITY: Not available.
PLACARD(S): Not available.
LABEL(S): Not available.
USCG Classification: Class 43, Misc. water solutions, Chris Code: PTF

INTERNATIONAL TRANSPORTATION:

IMO: Not regulated
IATA: Not regulated
TDG (Canada): Not regulated
ADR (Europe): Not regulated
ADG (Australia): Not regulated

EMERGENCY RESPONSE GUIDE: Not applicable
ERAP – CANADA: Not applicable
Special Precaution: None

15. REGULATORY INFORMATION

SAFETY, HEALTH, AND ENVIRONMENTAL REGULATION/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

Zinc phosphate (7779-90-0)

Zinc oxide (1314-13-2)

TSCA (Toxic Substances Control Act):

Zinc phosphate (7779-90-0)

Zinc oxide (1314-13-2)

PROPOSITION 65:

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

CARCINOGENIC CATEGORIES:

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

Corrosive to eyes.

GHS label elements:

This product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms:



GHS07

Signal word: Warning

Hazard statements:

Causes eye irritation. Causes skin irritation. Harmful if swallowed.

Precautionary statements:

Refer to sections 2 and 4.

National regulations:

This product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know:

None of the ingredients are listed.

Chemical safety assessment:

A chemical safety assessment has not been carried out

16. OTHER INFORMATION/PREPARATION DATE

NOTICE TO READER:

The buyer assumes all risk in connection with the use of this material. The buyer assumes all responsibility for ensuring this material is used in a safe manner in compliance with applicable environmental, health and safety laws, policies and guidelines. Genesis Agri Products, Inc. assumes no responsibility or liability for the information supplied on this sheet, including any damages or injury caused thereby. Genesis Agri Products does not warrant the fitness of this material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by or related to the use of the material. The information contained in this sheet is developed from what Genesis Agri Products, Inc. believes to be accurate and reliable sources, and is based on the opinions and facts available on the date of preparation.

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