

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Pro Phos 2 0-20-0
Product code : 30232

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Fertilizers

1.4. Supplier's details

Manufacturer

Agroplasma, S. L.
C/ Torre del Mar Nr. 56, Malaga
Spain
T 34 952 382 437

Supplier

Ferticell
5865 S. Kyrene Rd Suite 1
Tempe, AZ, 85283
USA
T 480.361.1300
www.ferticellusa.com

1.5. Emergency phone number

Emergency number : Infotrac Contract #111163
INFOTRAC (800) 535-5053 24 hr

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals, Category 1
Skin corrosion/irritation, Category 1
Serious eye damage/eye irritation, Category 1
Health hazard not otherwise classified, Category 1

May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Causes severe damage to the respiratory tract.

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

:



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: May be corrosive to metals
Causes severe skin burns and eye damage
Causes severe damage to the respiratory tract

Precautionary statements (GHS US)

: Keep only in original packaging.
Do not breathe dusts or mists.
Wash hands, forearms and face thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

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If swallowed: rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Take off immediately all contaminated clothing and wash it before reuse.
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.
Immediately call a poison center or doctor.
Absorb spillage to prevent material-damage.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Phosphorus oxide (P2O5)	CAS-No.: 1314-56-3	20 – 25

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Causes severe damage to the respiratory tract

Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Extinguishing powder. Carbon dioxide (CO₂). Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Phosphorus oxides.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

Emergency procedures : Do not touch or walk on the spilled product.

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation. Absorb spillage to prevent material-damage.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Read label before use. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : May be corrosive to metals.

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7.2. Conditions for safe storage, including incompatibilities

Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store only in original container.
Storage temperature	: 41 – 77 °F (5 – 25 °C)
Specific end uses	: Not available.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m³
ACGIH OEL STEL	3 mg/m³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	1 mg/m³
USA - IDLH - Occupational Exposure Limits	
IDLH	1000 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	1 mg/m³
NIOSH REL (STEL)	3 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing. Wear safety footwear.
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

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Personal protective equipment symbol(s):



Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Light brown
Odor	: Characteristic
Odor threshold	: No data available
pH	: 0.5 – 1
Melting point	: 69.8 °F (21 °C)
Freezing point	: No data available
Boiling point	: 316.4 °F (158 °C)
Flash point	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: 0.3 kPa at 20°C / 68 °F
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Water: 100 %
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Material corrosivity	: Extremely corrosive to copper, stainless steel (304)(316). Highly corrosive to aluminum, brass. Corrosive to ferrous metals and alloys. Slightly corrosive to bronze. Non-corrosive to glass.
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SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Contact with metallic substances may release flammable hydrogen gas. Exothermic reaction on contact with : sodium tetraborate, alcohols, glycols, aldehydes, amides, amines, azo-compounds, carbamates, caustics, esters, ketones, phenols and cresols, organophosphates, epoxides, combustible materials, unsaturated halides, organic peroxides. Formation of flammable gases with aldehydes, cyanides, mercaptans, and sulfides.

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10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong alkalis. Metals. Bleach. Ammonia. Nitromethane. Chlorides.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Phosphorus oxides.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Phosphorus oxide (P2O5) (1314-56-3)	
LC50 inhalation rat	608.5 mg/m³ (Exposure time: 1 h)
LC50 Inhalation - Rat (Dust/Mist)	0.304 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 0.5 – 1

Phosphorus oxide (P2O5) (1314-56-3)	
pH	3.6 Concentration: 0,1 g/L

Serious eye damage/irritation : Causes serious eye damage.
pH: 0.5 – 1

Phosphorus oxide (P2O5) (1314-56-3)	
pH	3.6 Concentration: 0,1 g/L

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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Viscosity, kinematic	No data available

Phosphorus oxide (P2O5) (1314-56-3)	
Viscosity, kinematic	No data available

Symptoms/effects after inhalation : Causes severe damage to the respiratory tract.
Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Phosphorus oxide (P2O5) (1314-56-3)

EC50 72h - Algae [1]	66.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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Phosphorus oxide (P2O5) (1314-56-3)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No
Other information : No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Do not flush to sewer or allow to enter waterways. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with DOT

14.1. UN number

UN-No. (DOT) : UN1805

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Phosphoric acid solution

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8

Hazard labels (DOT) : 8



14.4. Packing group

Packing group (DOT) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

Revision date : 2/24/2025

Issue date : 2/24/2025

Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Safety Data Sheet (SDS), USA

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