

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Phosphate-310**

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2. HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	Category 1	H314
Harmful if swallowed	Category 4	H302
Serious eye damage/eye irritation	Category 1	H318
Toxic if swallowed	Category 3	H301
Corrosive to metals	Category 1	H290
Harmful if inhaled	Category 4	H332
May cause respiratory irritation	Category 3	H335
Suspected of causing cancer	Category 2	H351
Suspected of damaging fertility or the unborn child	Category 2	H361
Causes damage to organs through prolonged or repeated exposure	Category 1	H372
Harmful to aquatic life	Category 3	H402
Harmful to aquatic life with long lasting effects	Category 3	H411

GHS Hazards

H290 - May be corrosive to metals
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H402 - Harmful to aquatic life
H411 - Harmful to aquatic life with long lasting effects

GHS Precautions

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist, vapours, spray.
P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P314 If you feel unwell, seek medical advice/attention (show the label where possible).
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

Signal Word: **Danger**



3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Molecular Wt	Concentration
Deionized Water / Pure Water	7732-18-5	H ₂ O (18.02)	80~85%
Concentrated Sulfuric Acid	7664-93-9	H ₂ SO ₄ (98.08)	10-15%
Ammonium Metavanadate	7803-55-6	NH ₄ VO ₃ (116.98)	0.5-1%
Ammonium Molybdate Tetrahydrate	12054-85-2	(NH ₄) ₆ Mo ₇ O ₂₄ ·4H ₂ O (1235.86)	0.1-0.5%

4. FIRST AID MEASURES

Inhalation:

Remove victim to fresh air and keep a rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Eye Contact:

Rinse the eye with water immediately. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

Skin Contact:

Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing

Ingestion:

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Notes to Physician:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL:

UEL:

Flammability of the Product:

Not Flammable.

Extinguishing Media:

Foam, Dry powder, Water spray, Carbon dioxide (CO₂)

Special hazards arising from the substance or mixture:

Carbon oxides, Sulfur oxides, Sodium oxides

Specific hazards during fire fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Fire Fighting Methods:

Standard procedure for chemical fires. Cool containers / tanks with water spray.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Splashproof protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Wear personal protective equipment (see section 8) .

Environmental precautions:

Should not be released into the environment. Stop the leakage if possible.

Methods for cleaning up:

In case of large spillage, contain and collect into suitable containers for disposal. Must be disposed of in accordance with local and national regulations. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wear appropriate personal protective equipment when handling this product. Do not get in eyes or on skin.

Storage:

Store at room temperature in the original container. Keep tightly closed. Avoid freezing.

Materials for packaging:

Suitable material: original container, plastic (PE, PP, PVC), Stainless steel .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Ensure adequate ventilation.

Occupational exposure controls:

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product .

Control of environmental exposure:

Do not let product enter drains. Discharge into the environment must be avoided.

Respiratory protection

For nuisance exposures use type N95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Glove material: Nitrile rubber disposable gloves.

Eye protection

Safety glasses with side-shields. Maintain eyewash fountain in work area.

Skin and body protection

Impervious clothing. Maintain safety shower in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: ND	Vapor Pressure: ND
Odor threshold: ND	Melting point: ND
Freezing point: ND	Solubility: ND
Boiling range: ND	Flash point: ND
Evaporation rate: ND	Flammability: ND
Explosive Limits: ND	
pH: ND	
Specific gravity : ND	Partition coefficient (n- ND octanol/water): ND
Autoignition temperature: ND	Decomposition temperature: ND

Vapor Density: ND

Grams VOC less water: ND

Appearance: ND

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Incompatibility materials

Oxidizing agents, Acids, Bases

Hazardous reactions :

Hazardous polymerisation does not occur.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors .

11. TOXICOLOGICAL INFORMATION

NO DATA

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Product:

Must be disposed of in accordance with local and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging:

Must be disposed of in accordance with local and national regulations. Dispose of as unused product.

14. TRANSPORT INFORMATION

Agency Proper Shipping Name

UN NumberPacking GroupHazard Class

DOT Not Regulated, as it is not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

SARA 313: 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

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. Pyxis Lab, Inc. does not assume any liability arising out of the use by others of this product.