



Material Safety data sheet

ProPhos

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.

Other hazards

The product is classified as Skin Corr.
1A due to the extreme pH.
Results of PBT and vPvB assessment

SECTION 3: Composition/Information on Ingredients

S. No	Chemical Name	CAS #	Percent	Hazard
1	Phosphoric Acid	7664-38-2	55-60%	Corrosive
2	Lauryl Amine Oxide	1643-20-5	1-5%	None
3	Anionic Surfactant	9004-82-4	5-10%	None
4	Water	7732-18-5	Balance	None

**Ranges are provided as the exact composition is a trade secret*

SECTION 4: First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper lids occasionally get medical attention immediately.
Skin:	Remove contaminated clothing and shoes, flush skin with plenty of water for at least 15 minutes, and get medical attention immediately.
Inhalation:	Remove victim to fresh air. If not breathing give artificial respiration, if breathing is difficult, give oxygen and get medical attention immediately
Ingestion:	Do not induce vomiting, give large quantities of water or milk if available; never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed Corrosive effects.
Can cause permanent eye damage.
Indication of any immediate medical attention and special treatment needed

SECTION 5: Fire Fighting Measures

Flash Point	Not Flammable.
Flash Point method	Not applicable
Auto-ignition Temperature	Not applicable.
LEL	Not applicable.
UEL	Not applicable.
Flammable classifn	Not Flammable



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Extinguishing media

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Not applicable.
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental Release Measures

Small spill Shut off leaks without risk, dilute with alkali and drench with water.

Containment Prevent spillage from entering drains or water sources

Clean Up Dilute with alkali and wash with water.

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapour.

Do not get in eyes, on skin, or on clothing.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Send for recovery or disposal in suitable receptacles.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Ensure adequate ventilation.

SECTION 7: Handling and Storage

Handling Precautions: Protect from physical damage. When using do not eat, drink or smoke. Prevent formation of aerosols. When diluting always pour product into water and not vice versa.

Storage Requirements: Store in a cool dry ventilated storage area with acid resistance floors. Keep away from heat, water and incompatible materials.

Engineering Controls: Provide proper ventilation so as to maintain environment below air borne exposure limit.

Respiratory Protection: If exposure limit is exceeded, use respiratory protection.

Protective Clothing/ equipment : Use full PVC Suit, PVC hand gloves and safety shoes.

SECTION 8: Exposure controls and personal protection



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Ingredients with limit values that require monitoring at the workplace:

CAS: 7664-38-2 Phosphoric Acid

WES
Local effects: Long term exposure: 1 mg/m³ (repeated dose toxicity);
Acute/short term exposure: 2 mg/m³
Peak limitation: 2 mg/m³

Exposure controls

Personal protective equipment:



Respiratory Protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



Eye protection: Tightly sealed goggles



Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation ·

Material of gloves: Chloroprene rubber, Natural rubber

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Appearance & Odour:	Pale Yellow
pH:	1.2-1.4
Specific Gravity	1.4-1.42
Water Solubility	Completely miscible
Freezing Point	No Data
Boiling Point	>100 °C
Auto-ignition temperature	Product is non-flammable
Explosive Properties	Product does not have explosion properties



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SECTION 10: Stability and Reactivity

Stability:	Stable under ordinary condition
Chemical incompatibilities:	It is powerful oxidizing agent and is incompatible with strong bases, metallic powder, carbides, hydrogen sulphide, turpentine and combustible organics. Reacts violently to alkalis.
Condition to Avoid:	Light and heat. Do Not store with Alkalis Protect from Frost
Hazardous Decomposition:	No dangerous decomposition products emitted.

SECTION 11: Ecological Information

Ecotoxicity:	No information available.
Persistence and degradability:	The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
Environmental:	No information reported.
Physical:	No information available
Other:	None.

SECTION 12: TOXICOLOGICAL INFORMATION

TLV as per ACIGH:	2 ppm
Acute Inhalation Effect:	Corrosive. Inhalation of vapour can cause breathing difficulties, over exposure may lead to pneumonia and pulmonary edema.
Primary irritant effect:	Strong caustic effect on skin and mucous membranes. Serious eye damage/irritation. May cause irreversible eye damage
Irritating effect.	Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: It may be disposed-off by neutralizing with alkaline materials and water.

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



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SECTION 14: TRANSPORT INFORMATION

Shipping name ProPhos

Hazard class 8



Hazard Label

UN Number UN1805

Packing Group ADG, IATA III

SECTION 15: REGULATORY INFORMATION

Oxidizing, Corrosive Material

SECTION 16: OTHER INFORMATION

Prepared by: M/s Agrid Scientific Company, Chennai.

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