



# Safety Data Sheet

Better Chemistry. Better Business

**PHOS & CLEAN HS-333**

**Revised:** 11/12/25

## 1 IDENTIFICATION

**Product Name:** PHOS & CLEAN HS-333

**Product Code :**2201931

**Recommended use of the chemical and restrictions on use:**Industrial applications

### Hubbard-Hall Inc.

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Waterbury, CT 06708

**Telephone:** 203-756-5521

**Fax number:** 203-756-9017

Emergency Phone Number

**CHEMTREC:** 1 (800) 424-9300

**International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION



**Signal Word:** WARNING

**Hazard Category:** Skin Corrosion/Irritation Hazard Category 2

Eye Damage/Irritation Hazard Category 2B

**Hazard Statements:** Causes skin irritation.

Causes eye irritation.

**Prevention:** Wash skin thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

**Response:** If on skin: Wash with plenty of water.

Specific treatment - refer to poison center or doctor for advice.

If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention .

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with local regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Ammonium Bifluoride		1341-49-7	1-5%
Phosphoric Acid		7664-38-2	10-20%
Alcohol Ethoxylate		121546-77-8	1-5%
Sodium Xylene Sulfonate		1300-72-7	1-10%

### 4 FIRST AID

**After Skin Contact:**

If on skin(on hair): Take off immediately all contaminated clothing. Rinse with water/safety shower. Call doctor if irritation persists.

**After Eye Contact:**

If in eyes: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritated, call doctor.

**Most Important Symptoms/Effects**

**Eye:**

Irritation of eyes and skin.

**Skin:**

This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation(dermatitis).

**Indication of immediate medical attention:**

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

### 5 FIRE FIGHTING MEASURES

**Suitable and Unsuitable extinguishing media:**

Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.

**Specific hazards arising from the chemical:**

Carbon oxides may be produced.

**Special protective equipment and precautions for firefighter**

Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

### 6 ACCIDENTAL RELEASE MEASURES

**Methods and Materials for containment & cleaning up:**

Stop spill at source.

Caution: Spilled material may be slippery.

### 7 HANDLING AND STORAGE

**Precautions for safe handling:**

Wash hands thoroughly after handling.

Wear rubber gloves, eye protection, and chemical protective clothing.

Eating, drinking and smoking in the work area is prohibited.

**Conditions for safe storage, inc any incompatibilities:**

Store Locked Up.

Not Damaged by Freezing

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Ammonium Bifluoride	ACGIH	2.5 mg/m <sup>3</sup> (F)	
Phosphoric Acid	ACGIH	1 mg/m <sup>3</sup>	
Alcohol Ethoxylate	Not established		
Sodium Xylene Sulfonate	ACGIH	Not established	

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

- Ventilation:** Use in well ventilated areas
- Respiratory Protection:** Use protection if misting of product is possible.
- Protective Gloves:** Wear rubber gloves.
- Eye Protection:** Wear chemical safety goggles & full face shield

## 9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** OrangeLiquid
- Odor:** Mild acid
- Odor Threshold:** N/A
- PH:** ~3.5
- Melting Point/Freezing Point:** NA
- Initial Boiling Point and Boiling Range:** 212 °F+
- Flash Point:** NA
- Evaporation Rate:** N/A
- Flammability (solid, gas):** N/A
- Upper/Lower flammability or explosive limits:** non-flammable
- Vapor Pressure:** NA
- Vapor Density:** NA
- Relative Density:** 1.085
- Solubility (ies):** 100%
- Partition Coefficient; n-octanol/water:** NA
- Auto-ignition Temperature:** N/A
- Decomposition Temperature:** NA
- Viscosity:** NA
- VOC Content** 0

## 10 STABILITY AND REACTIVITY

- Reactivity:** Hazardous Polymerization will not occur.
- Chemical Stability:** Stable under normal conditions
- Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.
- Incompatible Materials:** Avoid contact with strong oxidizers and strong acids.

## 11 TOXICOLOGICAL INFORMATION

<b>Oral Administration:</b>	Phosphoric Acid-LD50-(Rat-female)-1.7 mL/100 g body weight
<b>Oral Administration:</b>	LD50, rat, 60 - 130 mg/kg (Ammonium Fluoride)
<b>Oral Administration:</b>	Sodium Xylene Sulfonate LD50(Rat)-16,200 mg/kg
<b>Oral Administration:</b>	Alcohol Ethoxylate LD50 (Rat) 1,000-2,000mg/kg
<b>Dermal administration:</b>	Not Established
<b>Dermal administration:</b>	Ammonium Bifluoride-LD50-for the hydrolysis product-50-200 mg/kg
<b>Dermal administration:</b>	Alcohol Ethoxylate-LD50(Rabbit)-2000 mg/kg estimated
<b>Dermal administration:</b>	Sodium Xylene Sulfonate LD50(Rabbit)->2000 mg/kg
<b>Immediate effects:</b>	Irritation/ burns of skin and eyes.
<b>Immediate effects:</b>	Irritation of skin and eyes.
<b>Cancer Hazard:</b>	Not listed by IARC, NTP, OSHA, ACGIH
<b>Routes of Exposure</b>	Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

<b>Persistence and Degradability:</b>	Will biodegrade readily
<b>Biotic degradability:</b>	No data available
<b>Bioaccumulation potential:</b>	Unlikely
<b>Water result:</b>	Disperses in water.
<b>Soil/Sediment Result:</b>	No data available

## 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

## 14 TRANSPORT INFORMATION

**UN Proper Shipping Name:** Not regulated by D.O.T.

## 15 REGULATORY INFORMATION

**HMIS: Health: 1 Flammability: 0 Reactivity: 1**

<b>Cercla</b>	Phosphoric Acid-RQ=5000 lbs
<b>Cercla</b>	Ammonium Bifluoride-RQ=100 lbs
<b>Sara Hazard Classification</b>	The chemicals in this product are not subject to SARA Title III, Section 313 Reporting Requirements.
<b>Proposition 65</b>	No Proposition 65 listed components in this formula
<b>TSCA Inventory Status</b>	All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

## 16 OTHER INFORMATION

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.