

# MATERIAL SAFETY DATA SHEET

HY-STOP®

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-866-944-8565  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** HY-STOP® SPRAY BUFFER

**CHEMICAL NAME:** Phosphoric Acid

**CHEMICAL FAMILY:** Acidifier

**WA REG. NO.:** 34704-50004

**MSDS Number:** 8042621-10-LPI

**MSDS Revisions:** Sections 1, 3, 13

**Date of Issue:** 07/09/10

**Supersedes:** 02/13/08

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - WARNING** – Harmful if swallowed. Causes substantial but temporary eye irritation. Wear protective eyewear (goggles or face shield). Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Primary routes of entry are Inhalation, eye contact and skin contact.

This product is a clear, colorless liquid with no odor.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	8.00	7664-38-2	1 mg/m <sup>3</sup>
Other Ingredients	92.00		

## 4. FIRST AID MEASURES

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-866-944-8565**. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Does not flash.

**FLAMMABLE LIMITS (LFL & UFL):** Not established

**EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray, or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** None known.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and full protective gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Use water spray to cool containers in fire. Dike area to contain run-off and prevent contamination of water supplies.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills. Shut off source of leak if safe to do so. Dike and contain spill. Soak up residue with absorbent such as clay, sand or other suitable material and dispose of properly. Flush area with water to remove trace residue. Contain runoff from residue flush and dispose of properly. Place in container for proper disposal. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

**HANDLING:** **Applicators and other handlers must wear:** long-sleeved shirt and pants, shoes plus socks, rubber or chemical impervious gloves, and protective eyewear. Respiratory protection is not normally required but if vapor levels are not acceptable, wear MSHA/NIOSH approved respirator for inorganic acid vapors.

**STORAGE:** Store in HDPE, fiberglass, or stainless steel containers only. Keep away from children, domestic animals, feed and foodstuffs. Keep container tightly closed. Do not reuse empty container. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** If vapors exceed acceptable levels, wear a MSHA/NIOSH approved respirator for inorganic acid vapors.  
**EYE PROTECTION:** Wear protective eyewear (goggles or face shield).  
**SKIN PROTECTION:** Applicators and other handlers must wear long-sleeved shirt and pants, shoes plus socks, rubber or chemical impervious gloves.

Phosphoric Acid	<b>OSHA PEL 8 hr TWA</b> 1 mg/m <sup>3</sup>	<b>ACGIH TLV-TWA</b> 1 mg/m <sup>3</sup> – 3 mg/m <sup>3</sup> (STEL)
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Clear colorless liquid with no odor  
**SPECIFIC GRAVITY (Water = 1):** 1.047 g/ml  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** Not established  
**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**BULK DENSITY:** 8.74 lbs/gal.  
**BOILING POINT:** 212°F/100°C  
**EVAPORATION RATE:** Not established

**SOLUBILITY:** Emulsifies  
**pH:** 1.0 (neat)

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Excessive heat.  
**INCOMPATIBILITY:** Avoid contact with strong bases and oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Some phosphorus-containing oxides.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** 1.53 g/kg  
**Eye Irritation (rabbit):** Substantial but temporary irritant  
**Inhalation LC<sub>50</sub> (rat):** May cause moderate respiratory tract irritation  
**Carcinogenic Potential:** None listed by OSHA, NTP, IARC, and ACGIH as a carcinogen

**Acute Dermal LD<sub>50</sub> (rabbit):** Not established  
**Skin Irritation (rabbit):** May cause moderate irritation.  
**Skin Sensitization (guinea pig):** Not established.

**12. ECOLOGICAL INFORMATION**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

Triple rinse (or equivalent), adding rinse water to spray tank. Dispose of container in a sanitary landfill, or if permitted by State and local authorities, by burning. If burned, stay out of smoke. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** PHOSPHORIC ACID SOLUTION, 8, UN1805, III ERG GUIDE 154.  
**Freight Classification:** ACIDS, PHOSPHORIC (NMFC 4440, SUB 3; CLASS 70)  
**Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.**

**15. REGULATORY INFORMATION**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS	
2	Health	0	Least
0	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe
		2	Health
		0	Flammability
		0	Reactivity
		H	PPE

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:**

Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>Y</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** Phosphoric Acid (CAS: 7664-38-2) 5000 pounds  
**SARA, Title III, Section 313:** Not listed  
**RCRA Waste Code:** Not listed  
**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** Sections 1, 3 and 13 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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