

HD PL-10 PLUS

## Section 1. Chemical product and company identification

**Product name** : HD PL-10 PLUS  
**Recommended use and restrictions** : Cleaning product  
 Use only for the purpose on the product label.

**Product dilution information** : Up to 1 oz/10 gal or 1 ml/L in water

**Supplier's information** : Ecolab Inc. Food & Beverage Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-392-3392

**Code** : 916098-03

**Date of issue** : **22 May 2013**

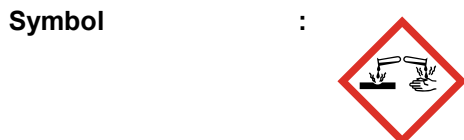
EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 : CORROSIVE TO METALS - Category 1  
 SKIN CORROSION/IRRITATION - Category 1  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**GHS label elements**

**Signal word** : Danger



**Hazard statements** : May be corrosive to metals.  
 Causes severe skin burns and eye damage.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash hands thoroughly after handling.

**Response** : Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with

**Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

**Section 2. Hazards identification**

	water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.	
<b>Storage</b>	: Store in corrosive resistant container with a resistant inner liner.	No other specific measures identified.
<b>Disposal</b>	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
<b>Other hazards</b>	: None known.	None known.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
nitric acid	13	7697-37-2
PHOSPHORIC ACID	11	7664-38-2
SULFURIC ACID	5	7664-93-9

**Product AT USE DILUTION**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

**Section 4. First aid measures**

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
<b>See toxicological information (section 11)</b>		

## Section 5. Fire-fighting measures

<b>Product AS SOLD</b>	
<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: nitrogen oxides sulfur oxides phosphorus oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

<b>Product AS SOLD</b>		<b>Product AT USE DILUTION</b> Use personal protective equipment as required.  Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. Use a water rinse for final clean-up.
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	
<b>Environmental precautions</b>	: Avoid contact of spilled material and runoff with soil and surface waterways.	
<b>Methods for cleaning up</b>	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.	

## Section 7. Handling and storage

<b>Product AS SOLD</b>		<b>Product AT USE DILUTION</b> Wash thoroughly after handling.  Keep out of reach of children.
<b>Handling</b>	: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash thoroughly after handling.	
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: -30 and 50°C	

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
nitric acid	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 10 mg/m <sup>3</sup> 15 minutes. STEL: 4 ppm 15 minutes. TWA: 5.2 mg/m <sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 2 ppm 10 hours. TWA: 5 mg/m <sup>3</sup> 10 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m <sup>3</sup> 15 minutes.
PHOSPHORIC ACID	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 3 mg/m <sup>3</sup> 15 minutes. TWA: 1 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1 mg/m <sup>3</sup> 10 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes.
SULFURIC ACID	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Thoracic fraction <b>OSHA PEL (United States, 6/2010).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1 mg/m <sup>3</sup> 10 hours.

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD
<b>Physical state</b>	: Liquid.
<b>Color</b>	: Red
<b>Odor</b>	: Pungent
<b>pH</b>	: 1 (100%)
<b>Flash point</b>	: > 100°C Product does not support combustion.
<b>Explosion limits</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: >100°C (>212°F)
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.171 to 1.181 (Water = 1)
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

### Product AT USE DILUTION

Liquid.  
Colorless  
Odorless  
2.5 to 4.3  
> 100°C

## Section 10. Stability and reactivity

Product AS SOLD	
<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Extremely reactive or incompatible with alkalis. Reactive with organic materials, metals. Do not mix with bleach or other chlorinated products - will cause chlorine gas.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

## Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
<b>Symptoms</b>		
<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness	No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	No specific data.
<b>Inhalation</b>	: Adverse symptoms may include the following: coughing Respiratory tract irritation	No specific data.
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains	No specific data.
<b>Acute toxicity</b>		
<b>Eye contact</b>	: Causes serious eye damage.	No known significant effects or critical hazards.
<b>Skin contact</b>	: Causes severe burns.	No known significant effects or critical hazards.
<b>Inhalation</b>	: May cause respiratory irritation.	No known significant effects or critical hazards.
<b>Ingestion</b>	: May cause burns to mouth, throat and stomach.	No known significant effects or critical hazards.

**Toxicity data**

**Product/ingredient name**

phosphoric acid	LC50 Inhalation Dusts and mists	Rat	0.962 mg/l
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg

**Chronic toxicity**

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

**Product AS SOLD**

**Ecotoxicity** : This material is harmful to aquatic life.

**Aquatic and terrestrial toxicity**

Product/ingredient name	Result	Species	Exposure
nitric acid	Acute LC50 72 mg/l	Fish	96 hours
phosphoric acid	Acute LC50 75.1 mg/l	Fish	96 hours
sulphuric acid	Acute LC50 22 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Product AS SOLD**

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D002 (Corrosive)

**Product AT USE DILUTION**

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**DOT**

**DOT Classification** UN3264

**DOT Proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid, nitric acid)

**Class** 8

**Packing group** II

**IMO/IMDG**

**IMO/IMDG Classification** UN3264

**IMO/IMDG Proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid)

**Class** 8

**Packing group** II

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** nitric acid

**SARA 302/304 emergency planning and notification:** nitric acid

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: nitric acid	7697-37-2	13.026

**California Prop. 65** : No products were found.

## Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

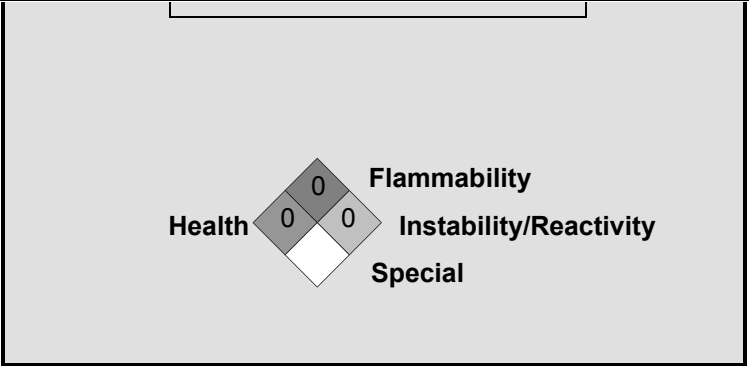
Health	*	3
Flammability		0
Physical hazards		0

**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0

# Section 16. Other information

National Fire Protection Association (U.S.A.) :



Date of issue : 22 May 2013  
Prepared by : Regulatory Affairs  
1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**