

# Material Safety Data Sheet



Less-CU

## Section 1. Chemical product and company identification

**Trade name** : Less-CU  
**Product use** : Veterinary care  
**Supplier** : Ecolab Inc. Food & Beverage Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-392-3392  
**Code** : 904068-01  
**Date of issue** : 17-October-2008

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

## Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
phosphoric acid	7664-38-2	27
quatarnary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	68424-85-1	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-	9043-30-5	1 - 5
1-decanaminium, n,n-dimethyl-n-octyl-, chloride	32426-11-2	1 - 5
ethanol	64-17-5	1 - 5
didecyldimethylammonium chloride	7173-51-5	1 - 5
1-octanaminium, n,n-dimethyl-n-octyl-, chloride	5538-94-3	1 - 5

## Section 3. Hazards identification

**Physical state** : Liquid. [Liquid.]  
**Emergency overview** : DANGER !  
CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.  
CAUSES RESPIRATORY TRACT IRRITATION.  
Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

### Potential acute health effects

**Eyes** : Corrosive to eyes.  
**Skin** : Corrosive to the skin.  
**Inhalation** : Irritating to respiratory system.  
**Ingestion** : Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

## Section 4. First aid measures

**Eye contact** : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.

**Ingestion** : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire fighting measures

- Flash point** : > 100°C  
Product does not support combustion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
phosphorus oxides  
halogenated compounds  
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.  
  
Dike area of fire to prevent runoff.  
In a fire or if heated, a pressure increase will occur and the container may burst.
- Special protective equipment for fire-fighters** : 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

- Personal precautions** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.  
Store between the following temperatures: -10 and 50°C

## Section 8. Exposure controls/personal protection

- Engineering measures** : 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.

### Personal protection :

- Eyes** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : Use synthetic apron, other protective equipment as necessary to prevent skin contact.
- Respiratory** : Avoid breathing vapors, spray or mists.

**Name** **Exposure limits**

phosphoric acid	<b>ACGIH TLV (United States, 1/2008).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). TWA: 1 mg/m <sup>3</sup> 8 hour(s). <b>OSHA PEL (United States, 11/2006).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s).
ethanol	<b>ACGIH TLV (United States, 1/2008).</b> TWA: 1880 mg/m <sup>3</sup> 8 hour(s). TWA: 1000 ppm 8 hour(s). <b>OSHA PEL (United States, 11/2006).</b> TWA: 1900 mg/m <sup>3</sup> 8 hour(s). TWA: 1000 ppm 8 hour(s).

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid. [Liquid.]
<b>Color</b>	: Colorless to light yellow. [Light]
<b>Odor</b>	: Faint odor.
<b>pH</b>	: 1.7 to 2 [Conc. (% w/w): 100%]
<b>Boiling/condensation point</b>	: >100°C (>212°F)
<b>Relative density</b>	: 1.141 to 1.161
<b>Dispersibility properties</b>	: Easily dispersible in the following materials: cold water and hot water.
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

<b>Stability</b>	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Reactivity</b>	: Highly reactive with alkalis. Reactive with 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.
<b>Hazardous polymerization</b>	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Potential acute health effects

<b>Eyes</b>	: Corrosive to eyes.
<b>Skin</b>	: Corrosive to the skin.
<b>Inhalation</b>	: Irritating to respiratory system.
<b>Ingestion</b>	: Causes burns to mouth, throat and stomach.

### Potential chronic health effects

<b>Target organs</b>	: Contains material which may cause damage to the following organs: blood, lungs, liver, upper respiratory tract, central nervous system (CNS).
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## Section 12. Ecological information

## Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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

Consult your local or regional authorities.

## 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.**

### UN Classification

UN number	UN1805
Proper shipping name	PHOSPHORIC ACID, SOLUTION
Class	8
Packing group	III

See shipping documents for specific transportation information.

## Section 15. Regulatory information

**HCS Classification** : Corrosive material  
Target organ effects

**U.S. Federal regulations** : **SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

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

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

## Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	*	3
	Flammability		0
	Physical hazards		0

**Date of issue** : 17-October-2008.

**Responsible name** : Regulatory Affairs

**Date of previous issue** : 27-August-2008.

### 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.