

**MATERIAL SAFETY DATA SHEET**

HADDON EQUIPMENT & SUPPLIES  
8441 MAIN STREET  
VANCOUVER, B.C. V5X 3Y2

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In Case of Emergency Only:  
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Valid: Nov. 2011 - Nov. 2013

**PRODUCT NAME:** LIQUID SOUR AND SOFTENER **CODE: L530**  
**OTHER NAME:** LSS510  
**DISTRIBUTED BY:**

**WHMIS CLASSIFICATION:** E  
**TDG CLASSIFICATION:** PHOSPHORIC ACID, LIQUID; Class 8(9.2); UN 1805; PG III

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<b>HAZARDOUS INGREDIENTS</b>	<b>%WT/WT</b>	<b>CAS NO.</b>	<b>TOXICITY DATA (LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>
Phosphoric Acid (As 100% Active)	5-10	7664-38-2	LD <sub>50</sub> Oral (rat) 1530 mg/kg ACGIH TLV - 1 mg/m <sup>3</sup>
Citric Acid	1-5	77-92-9	LD <sub>50</sub> Oral (rat) 5040 mg/kg

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**PHYSICAL DATA FOR PRODUCT**

Physical State: Liquid  
Boiling Point: 100°C  
Vapour Density: Not Avail.  
Freezing Point: Not Avail.  
Solubility in Water: 100%  
Appearance & Odour: Pink colored, slightly viscous liquid with perfumed odour.

Sp. Gravity: 1.036  
Vapour Pressure: Not Avail.  
Evaporation Rate: Not Avail.  
pH: 2.5

**FIRE AND EXPLOSION DATA FOR PRODUCT**

Flash Point (Test Method): N/A  
Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A  
Fire Extinguishing Substances: (X) Water Fog (X) Foam ( ) CO<sub>2</sub> (X) Dry Chem ( ) Other:  
Hazardous Combustion Products: Hydrogen chloride, methyl chloride and phosphorus oxide fumes may be generated in addition to ordinary combustion products.  
Special Firefighting Procedures: Wear full protective clothing and self contained breathing apparatus.

**REACTIVITY DATA FOR PRODUCT**

Incompatibility: ( ) Water (X) Oxidizing Material ( ) Acid ( ) Base ( ) Other:

Hazardous Decomposition Products: See Hazardous Combustion Products.

Chemical Stability: Stable.

\*N/A - Not applicable.

Product Name: **LIQUID SOUR AND SOFTENER (LSS510)**

**HEALTH HAZARD INFORMATION FOR PRODUCT**  
EMERGENCY and FIRST AID PROCEDURES

- Inhalation: Remove from exposure. If discomfort persists, get medical attention.
- Ingestion: Do not induce vomiting. Give large quantities of water. Get medical attention.
- Eyes: Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
- Skin: Wash off with water. If irritation persists, get medical attention.

**EFFECTS OF OVEREXPOSURE (Acute and Chronic)**

- Inhalation: May cause irritation of mucous membranes.
- Ingestion: Causes diarrhea, nausea, vomiting, cramps, gastro intestinal irritation.
- Eyes: Severe irritant, may cause chemical burn.
- Skin: Will cause irritation of skin. Repeated contact can cause defatting and dermatitis.

**PREVENTIVE MEASURES**

Steps to be taken upon release or spillage (including neutralizing):  
For smaller spills, flush off with water. For larger spills, dyke and salvage.

Waste disposal method:  
Follow all local, provincial and federal regulations.

Handling and Storage Requirements:  
Keep container closed when not in use.

Ventilation Requirements (Local or General):  
Use in well ventilated area.

Respiratory Protection:  
A mask may be worn.

Eye Protection:  
Safety glasses with sideshield.

Other Protection:  
Gloves, coveralls may be worn.