

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Name of the Product: Lavasept

Product Code: FG0113

Recommended Use: Cleaner

Producer:

Perma Incorporated

605 Springs Road

Bedford, MA 01730

Telephone Number for Information - (978)667-5161

Emergency Phone Number - (800)255-3924 ChemTel Inc.

SECTION II – HAZARD(S) IDENTIFICATION

Classification:

Skin irritation, Category 1

Eye irritation, Category 1

Labeling:

Symbol: Corrosive

Signal Word: Danger

Hazard Statement:

May be corrosive to metals

Causes skin burns.

Causes eye burns.

Harmful to aquatic life.

Precautionary Statements:

Keep container tightly closed when not in use.

Keep away from heat, sparks and or open flame.

No smoking.

Wear protective gloves and eye/face protection.

Avoid contact with skin, eyes or clothing.

Take precautionary measures against static discharge.

Store in a cool well-ventilated area.

Avoid release to the environment.

SECTION III – Composition/Information On Ingredients

Component	CAS#	Weight %
Alkyl benzenesulfonic acid	1886-83-3	10-20
Hydrogen Chloride	7647-01-0	6-10
Sulfuric Acid	7664-93-9	4-8
Ethanol	64-17-5	1-3

SECTION IV – FIRST AID MEASURES

Skin Contact: Seek immediate medical attention. Call a poison control center or physician. Immediately wash contaminated skin with soap and water. Launder contaminated clothing separately. Chemical burns need to be treated immediately by a physician.

Eye Contact: Seek immediate medical attention. Call a poison control center or physician. Immediately flush eyes with water for at least 10 minutes. Remove contact lenses.

Ingestion: DO NOT INDUCE VOMITING. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous Combustion Products: Decomposition products may include nitrogen oxides, halogenated compounds, and metal oxides.

Fire/Explosion Hazard: None known.

Protective Equipment & Precautions for Firefighters: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this combustible liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to cool fire-exposed containers.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Depending on the extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up. Do not eat, drink or smoke while cleaning up. Use a self-contained respirator, a mask with filter or a filtering mask. Wear protective clothing, safety glasses and impervious gloves (e.g. neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition: hot surfaces and open flames (see also section 7).

Environmental Precautions: Prevent spills from entering storm sewers or drains and contact with soil.

Methods For Cleaning Up:

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternately, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or other confined areas. Wash spillages into an effluent treatment plant if possible. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazards as the

spilled product. Note, see section 1 for emergency contact information and section 13 for waste disposal.

SECTION VII – HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment. Do not get in eyes, skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container, tightly closed, when not in use. Keep away from strong bases. Empty containers retain product residue and can be dangerous. Do not reuse container.

Advice on General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene measures.

KEEP OUT OF REACH OF CHILDREN

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Hydrogen Chloride 7647-01-0

ACGIH	threshold limit value	2 ppm
OSHA Z1	permissible exposure limit	5 ppm
OSHA Z1	permissible exposure limit	7 mg/m ³

Sulfuric Acid 7664-93-9

ACGIH	threshold limit value	0.2 mg/m ³
OSHA Z1	permissible exposure limit	1 mg/m ³

Ethanol 64-17-5

OSHA Z1	permissible exposure limit	1,900 mg/m ³
OSHA Z1	permissible exposure limit	1,000 ppm
ACGIH	short term exposure limit	1,000 ppm
NOISH	time weighted average	1,900 mg/m ³
NOISH	time weighted average	1,000 ppm

Appropriate Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Exposure Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLV(s).

Individual Protection Measures:

Hygiene Measures: 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. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of gloves cannot be properly estimated.
8 hours (breakthrough time): butyl rubber

Body Protection: Personal protective equipment for the body should be selected based on the task performed and the risks involved. Should be approved by a specialist before handling this product. Recommended, safety apron.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: natural rubber (latex).

SECTION IX – PHYSICAL PROPERTIES

Appearance	Milky Green
Odor	Wintergreen
Odor Threshold	Not available
Physical State	Liquid
pH	1.0-3.0
Flash Point (TCC)	Not applicable. Product does not sustain combustion.
Flammability (solid, gas)	Not available
Lower and Upper Explosive Limits	Not available
Vapor Pressure	18 mm Hg
Vapor Density	1.5
Relative Density	1.06
Solubility	Water soluble
Partition coefficient:	Not available
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	2200-2700 cps. @ 25°C

SECTION X – STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions.

Conditions to Avoid: Keep away from heat, open flames and other ignition sources.

Incompatible Materials: Avoid contact with strong bases, alkalis.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous Reactions: Product will not undergo hazardous polymerization.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Inhalation: No data available

Dermal: No data available

Hydrogen Chloride 7647-01-0

LC50 – Rat 4701 ppm

LD50 – Rat 900 mg/kg

Sulfuric Acid 7664-93-9

LC50 – Rat 510 mg/m³

LC50 – Mouse 320 mg/m³

LD50 Rat – 2,140 mg/kg

SECTION XII – Ecological Information

Hydrogen Chloride 7647-01-0

Toxicity To Fish LC50 – Crustaceans 240,000 µg/l (48 h)

LC50 – Gambusia affinis 282 ppm (96 h)

Sulfuric Acid 7664-93-9

Toxicity To Fish LC50 – Bluegill Sunfish 49 mg/l (48 h)

LC50 – Flounder 100-330 mg/l (48 h)

Bio-accumulative Potential: There is no evidence to suggest bioaccumulation will occur.

Mobility: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

Aquatic Toxicity: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your local State Water Board or Regional Office of the EPA.

SECTION XIV – TRANSPORTATION INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. Dangerous goods descriptions may not reflect

end-use or region-specific exceptions that can be applied. For additional information, please contact the distributor listed in section 1 of this SDS.

Quantities < 0.3 gal (1.0L)

UN3264, Corrosive liquid, acidic, inorganic solution, n.o.s. (Contains Hydrochloric Acid)
8, PG II, Ltd Qty
Limited Qty Mark Req. 49 CFR 172.315
No UN Packaging or Shipping Doc. Req. 49 CFR 173.154

Quantities > 0.3 gal (1.0L)

UN3264, Corrosive liquid, acidic, inorganic solution, n.o.s. (Contains Hydrochloric Acid)
8, PG II
Corrosive label and UN packaging required
49 CFR 173.202

SECTION XV – REGULATORY INFORMATION

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations:

Section 313 of Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA).

Form R-Reporting Requirements Hydrogen Chloride 7647-01-0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 12 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any reportable HAPs.

Chemical Weapons Convention (CWC):

This product does not contain any listed substances.

California Prop. 65: This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm at levels which require reporting under the state statute.

SECTION XVI – OTHER INFORMATION

HMIS Rating: Health 3
 Flammability 0
 Reactivity 1
Prepared By: David Sadlo
Preparation Date: May 22, 2015

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty - The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.