

SAVOGRAN COMPANY

GALLEY HEAT (Denatured Alcohol)

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Product Number

800

Chemtrec

800-424-9300

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product Name

Lynsol

Product Code

1030

Chemical Name

Not Applicable

CAS Number

Mixture

Product Appearance and Odor

Light colorless liquid

Mild Odor

PRODUCT/INGREDIENT

No.	Composition	CAS No.	Percent
	Product	Mixture	100
1	Ethyl Alcohol	64-17-5	86-87
2	Methyl Alcohol	67-56-1	3-4
3	Ethyl Acetate	141-78-6	1
4	Methyl Isobutyl Ketone	108-10-1	1
5	Hydrocarbon Solvent	64742-89-8	<1
6	Water	7732-18-5	7

Hazardous Materials Identification System (HMIS)

Health Flammability Reactivity Basis

1 3 0

Recommended by Savogran

ACUTE TOXICITY DATA

No.	Acute Oral LD50	Acute Dermal LD50	Acute Inhalation LC50
1	1400 MG/KG – Human		20000 PPM- 10H - Rat
2	5628 MG/KG - Rat	15800 MG/KG – Rabbit	64000 PPM –4H – Rat
3	5620 MG/KG – Rat	>20 ML/KG - Rabbit	1600 PPM – 8 HR – Rat

HEALTH INFORMATION

The health effects noted below are consistent with requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Eye Contact

Based on presence of components 1,2, and 4, product is presumed to be mildly to severely irritating to the eyes.

Skin Contact

Based on presence of components 2 and 4, product is presumed to be slightly to moderately irritating to the skin and may be slightly toxic if absorbed through the skin. Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis.

Inhalation

Based on presence of components 2,3, and 4, product may cause irritation to the nose, throat and respiratory tract and based on presence of components 3, product is toxic. Based on presence of all components, inhalation may produce CNS depression and liver, kidney and optic nerve damage. Inhalation of vapors of component 5 may result in peripheral neuropathy.

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Ingestion

Based on presence of components 4, product is presumed to be moderately toxic. Ingestion of product may produce CNS depression and liver damage. Based on the presence of component 5, ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.

Signs and Symptoms

Irritation as noted above. Early to moderate CNS (central nervous system) depression may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color) and sometimes pain in the upper abdomen on the right side. Kidney damage may be evidenced by changes in urine output, urine appearance or edema (swelling from fluid retention). Optic nerve damage may be evidenced by partial or complete loss of vision. Peripheral nerve damage may be evidenced by muscular weakness and loss of sensation in the arms and legs. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin). In severe cases, death may occur.

Aggravated Medical Conditions

Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product. Impaired liver kidney, optic nerve and peripheral nerve functions from preexisting disorders may be aggravated by exposure to this product.

See section VI for additional health information.

OCCUPATIONAL EXPOSURE LIMITS

No.	OSHA		ACGIH	
	PEL/TWA		TLV/TWA	TLV/STEL
1	1000 PPM		1000 PPM	
2	200 PPM (Skin)		200 PPM (Skin)	250 PPM (Skin)
3	400 PPM		400 PPM	
4	100 PPM		50 PPM	75 PPM
5	Exposure Guidelines not listed			

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact

Flush skin with water while removing contaminated clothing and shoes. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

Inhalation

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Ingestion

Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30CC (2 tablespoons) syrup of ipecac.* If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

Note to Physician

*If victim is a child, give no more than 1 glass of water and 15CC (1 tablespoon) syrup of ipecac. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

SUPPLEMENTAL HEALTH INFORMATION

Persons on Disulfiram (antabuse (R)) therapy should be aware that the ethyl alcohol in this product is hazardous to them just as is alcohol from any source. Disulfiram reactions (vomiting, headache, and even collapse) may follow ingestion of small amounts of alcohol and have also been described from skin contact.

Studies in laboratory animals involving prolonged and repeated exposures to ethyl alcohol have resulted in such effects as liver damage, embryotoxicity, fetotoxicity, and teratogenicity. A transient mutagenic effect has been reported in rats.

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Some animal studies have reported degeneration of heart muscle after repeated exposure to high levels of methyl alcohol.

A 1985 publication reports that methyl alcohol was teratogenic in rats by inhalation at 20,000 PPM, 7 hours/day during gestation. Only slight maternal toxicity was observed indicating that methyl alcohol was probably a primary teratogen in the rat under the conditions of exposure. At 5,000 PPM exposure, methyl alcohol was not teratogenic. (Fund APPL TOX, 5:727, 1985)

Component 5 of this product may contain certain isoparaffins that have been demonstrated to cause kidney effects in male rats and cardiac sensitization in other species. The relevance of the kidney effects to man is unknown. There is no evidence that exposure to industrially acceptable levels of hydrocarbons (E.G., THE TLV) have produced cardiac effects in humans. Such sensitization however, may cause fatal changes in heart rhythm. This latter effect has been shown to be enhanced by hypoxia or the injection of adrenaline-like agents.

PHYSICAL DATA

Boiling Point (DEG F)	163-174	Specific Gravity: .789 to .806 (H2O=1)	Vapor Pressure: 44 @ 68 DEG. F (MM HG) (Estimated)
Melting Point: Not Available (DEG F)		Solubility: Complete (in water)	Vapor Density: 1.8 (Air-1) (Estimated)

Evaporation rate (N-Butyl Acetate=1): 1.7 (Estimated)

Appearance and Odor

Light colorless liquid. Alcohol like Odor

FIRE AND EXPLOSION HAZARDS

Flash Point and Method: 55-60 Deg. F (TCC)	Flammable Limits 1% Volume in Air Lower: 3.3 Upper: 19.0
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Extinguishing Media

Use water fog, "Alcohol" foam, dry chemical or CO2

Special Fire Fighting Procedures and Precautions

Warning. Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

REACTIVITY

NFPA Rating

Health - 0, Flammability - 3, Reactivity - 0

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions and Materials to Avoid:

Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures over 120 Deg. F.

Hazardous Decomposition Products

Carbon Monoxide and unidentified organic compounds may be formed during combustion. atmosphere supplying respirator or an air purifying respirator for organic vapors.

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EMPLOYEE PROTECTION

Respiratory Protection

Avoid breathing vapor

Use a NIOSH approved respirator as required to prevent overexposure. In accord with 29CFR 1910.134, use either a full-face

OSHA has established transitional occupational exposure limits for this product and/or components of this product. Refer to 29 CFR 1910.1000 for these transitional limits and requirements for meeting these limits.

Protective Clothing

Avoid contact with eyes. Wear chemical goggles if there is likelihood of contact with eyes. Avoid prolonged or repeated contact with skin. Wear gloves and other clothing as required to minimize contact.

Additional Protective Measures

Use explosion proof ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use.

ENVIRONMENTAL PROTECTION

Spill or Leak Procedures

Warning. Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

LARGE SPILLSEvacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms; water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. ***SMALL SPILLS***Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

SPECIAL PRECAUTIONS

Vapors may accumulate and travel to ignition sources distant from the handling site; flash fire can result. Keep containers closed when not in use. Use (only) with adequate ventilation.

Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Do not store or handle in aluminum equipment at temperatures over 120 DEG. F.

TRANSPORTATION REQUIREMENTS

D.O.T. Proper Shipping Name
Denatured Alcohol/3/UN1987/PGII

OTHER REGULATORY CONTROLS

The components of this product are listed on the EPA/TSCA inventory of chemical substances.

SPECIAL NOTES

The information contained herein is based on the data available to us and is believed to be correct. However, Savogran makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Savogran assumes no responsibility for injury from the use of the product described herein.