

# MATERIAL SAFETY DATA SHEETS

## ALCOHOL GEL HANDWASH SANITIZER

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### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME: ALCOHOL GEL HANDWASH SANITIZER

TRADE NAME / SYNONYMS: Not applicable

CHEMICAL NAME: Not applicable

MANUFACTURER: LIX DETERGENT JOINT STOCK COMPANY

ADDRESS: LINH TRUNG, THUDUC – HCMC – VIETNAM

**Email:**

### **SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENTS**

No	Material	Chemical name	CAS NO	A.I (% w/w)
1	Ethanol	Ethyl Alcohol	64-17-5	50 - 80
2	Carbomer	Acrylate Polimer	25155-30-0	0.2 – 1.0
3	Glycerin	Propan – 1,2,3-triol	56-81-5	1.0 – 3.0
4	Perfume	-	-	0.05 – 0.15
5	Other	-	-	Add to 100%

### **SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES**

ODOR & APPEARANCE	Colorless gel with characteristic odor
PH	6.0 - 8.0
VISCOSITY	2000 - 8000 mPAS
SPECIFIC GRAVITY/BULK DENSITY	0.7 – 1.0
CLOUD POINT (°C)	< 0
WATER SOLUBILITY	Complete
SOLUBILITY	Miscible in water
VAPOUR PRESSURE (20 °C)	Appro. 5.9 kPa
VAPOUR DENSITY (air=1)	Not available
BOILING POINT (°C)	Appro. 80
FLAMMABILITY LIMITS (%)	Not available
FREEZING POINT	Not available
FLASH POINT (°C)	Not determined
LOWER EXPLOSIVE LIMIT (%)	Not determined
UPPER EXPLOSIVE LIMIT (%)	Not determined

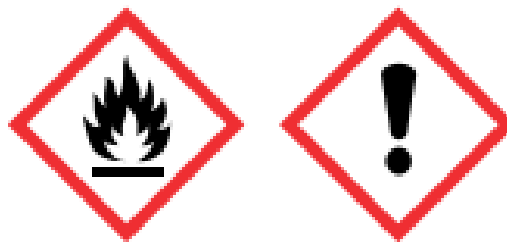
**SECTION 4: HAZARD IDENTIFICATION****Signal Word**

Danger

**Hazard Classifications**

Flammable Liquids - Category 2

Serious Eye Damage/Irritation - Category 2A

**Hazard Statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

**Prevention Precautionary Statements**

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P243 Take precautionary measures against static discharge.

**Response Precautionary Statements**

P101 If medical advice is needed, have product container or label at hand.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Storage Precautionary Statement**

P403+P235 Store in a well-ventilated place. Keep cool.

**Disposal Precautionary Statement**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

**Poison Schedule:** S5. Caution

**SECTION 5: STABILITY AND REACTIVITY**

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** Avoid exposure to heat, sources of ignition, and open flame

**Incompatible materials:** Incompatible with oxidising agents, acids, acid chlorides, alkali metals, ammonia, potassium tert-butoxide .

**Hazardous decomposition products:** Hazardous polymerisation will not occur.

**Hazardous reactions:** Oxides of carbon.

## **SECTION 6: FIRE FIGHTING INFORMATION**

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Highly flammable liquid and vapor. Combustible liquid. May form flammable vapor mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000.

Vapor may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

**Fire fighting further advice:** Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

## **SECTION 7: ACCIDENTAL RELEASE MEASURES**

### **SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### **LARGE SPILLS**

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum

up, but avoid generating dust. Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

### Dangerous Goods – Initial Emergency Response Guide No: 14

## **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES**

### National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Ethyl alcohol	1000	1880	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minutes period which should not be exceeded at any time during a normal eight-hour workday.

'Sen' Notice - sensitizer. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Vapour heavier than air - prevent

concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

**Personal Protection Equipment:** SAFETY SHOES, SAFETY GLASSES.

Wear safety shoes, safety glasses.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

### **SECTION 9: FIRST AID MEASURES**

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink.

Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**Notes to physician:** Treat symptomatically.

### **SECTION 10: TOXICOLOGICAL INFORMATION**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Acute Effects**

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

**Acute toxicity**

<b>Ethanol</b>	
LD50 oral rat	10470 mg/kg
LD50 dermal rat	15800 mg/kgv
LC50 inhalation rat (mg/l)	> 51 mg/l/4h

**Skin:** this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitive. Skin: this material has been classified as not a skin sensitive.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

**Chronic Toxicity**

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

**SECTION 11: ECOLOGICAL INFORMATION**

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low.

**Mobility:** No information available.

### **SECTION 12: DISPOSAL CONSIDERATIONS**

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### **SECTION 13: HANDLING AND STORAGE**

**Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition.

Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "Australian Code for the

Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

**SECTION 14: TRANSPORTATION INFORMATION****ROAD AND RAIL TRANSPORT**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

In accordance with DOT/ADR / RID / ADNR / IMDG / ICAO / IATA

- UN number UN-No. : 1170

- UN proper shipping name:

+ Proper shipping name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

+ Transport document description : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)

- Transport hazard class(es):

+ Class (UN) : 3

+ Hazard labels (UN) : 3

- Packing group (UN): II

Hazchem Code: •2YE

Emergency Response Guide No: 14

**AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1170

**Dangerous Goods Class:** 3

**Packing Group:** II

**Proper Shipping Name:** ETHANOL SOLUTION

**SECTION 15: REGULATORY INFORMATION**

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).



- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

#### **SECTION 16: OTHER INFORMATION**

##### **❖ User's responsibility**

It is the user's responsibility to provide a safe workplace. He or she should consider the health hazard and safety information contained herein as a guide and take those precautions required in an individual operation to instruct employees and develop work practices for a safe environment. The information and recommendations contained herein have been compiled from sources believed to be reliable. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws/regulation. The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components.