

GLENDO LLC

SAFETY DATA SHEET

1. PRODUCT & COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER(S)

Product Name: Spray Lacquer (Clear)

Stock Number: 024-025

1.3 COMPANY INFORMATION

Distributor's Name: Glendo LLC

Address: 900 Overlander Road, Emporia, KS 66801

Phone: (620) 343-1084

2. HAZARDS IDENTIFICATION

NEPA Ratings, risks phrases and suggested HMIS Hazards Categories:

GHS RATINGS:

Flammable aerosol	2	Flammable aerosol class 2
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Mutagen	1B	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	1A	Based on human evidence
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity 20.5 mm ² /s at 40° C.

GHS HAZARDS

H221 Flammable gas

H261 In contact with water releases flammable gas

H280 Contains gas under pressure; may explode if heated

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H318 Causes serious eye damage

H340 May cause genetic defects

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

GHS PRECAUTIONS

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

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

2. HAZARDS IDENTIFICATION (continued)

- P211 Do not spray on an open flame or other ignition source
- P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/light/equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P251 Pressurized container – Do not pierce or burn, even after use
- P264 Wash hands thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required
- P231+P232 Handle under inert gas. Protect from moisture
- P310 Immediately call a POISON CENTER or doctor/physician
- P321 Specific treatment (see directions on this label)
- P331 Do NOT induce vomiting
- P362 Take off contaminated clothing and wash before reuse
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages
- P370+P378 In case of fire: Use dry chemical (BC) or carbon dioxide (CO₂) for extinction
- P405 Store locked up
- P402+P404 Store in a dry place. Store in a closed container
- P403+P235 Store in a well ventilated place. Keep cool
- P501 Dispose of contents/container in accordance with Local, State and Federal Regulations.

Signal Word: Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Concentration %
Ethyl acetate	141-78-6	20.00% - 30.00%
Toluene	108-88-3	10.00% - 20.00%
n-Butyl acetate	123-86-4	10.00% - 20.00%
Acetone	67-64-1	10.00% - 20.00%
Ethyl 3-ethoxypropanoate	763-69-9	10.00% - 20.00%
1-Butanol	71-36-3	1.00% - 5.00%
Nitrocellulose	9004-70-0	1.00% - 5.00%
Isopropyl alcohol	67-63-0	1.00% - 5.00%
2-(1-Methoxy) Proxy Acetate	108-65-6	1.00% - 5.00%
Ethyl alcohol	64-17-5	1.00% - 5.00%
Ethylbenzene	100-41-4	0.10% - 1.00%

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation: Remove to FRESH air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lenses if possible.

Skin Contact: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Discard contaminated leather articles such as shoes and belt. Do not apply oils or ointments unless ordered by the physician.

Ingestion: If fully conscious, give two glasses of water, then induce vomiting by touching back of throat with finger. Keep head below hips to prevent aspiration of liquid into the lungs. CALL A PHYSICIAN immediately. Never induce vomiting or give anything by mouth to an unconscious victim.

Note to physicians: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Individuals experiencing breathing difficulties after exposure to vapor generated in aerosol applications should be observed for at least 48 hours in case delayed respiratory complications develop.

5. FIREFIGHTING MEASURES

Flash Point: -20 C (-4 F)

LEL: 1.00

UEL:

Flammable Limits: Highly flammable liquid and vapor (GHS Category 2)

Extinguishing Media: Alcohol Foam, CO₂, Dry Chemical Foam, Water Fog

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not use when smoking or where electrical sparks or open flame is present.

Haz. Combust. Products: Burning can produce carbon-dioxide and/or carbon monoxide.

Fire Fighting: Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Fire Equipment: As in a fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

Spill supervisor: Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

Small Spills: Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth.

Large Spills: Avoid run-off into storm sewers and ditches that lead to waterways. Use only non-sparking tools and equipment. A vapor suppressing foam may be used. Approach the spill from upwind and pick up absorbent material and place it in a suitable container. Disposal should be in accordance with Local, State, and Federal Regulations.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures i.e., 40 to 95 F (4 to 35 C).

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Grounding: when transferring, fill stem and container must be grounded and bonded. Store in a cool dry area with ventilation suitable for storing materials shown in section II. Keep away from heat, sparks and open flame. Do not cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION / CONTROL PARAMETERS

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethyl acetate 141-78-6	400 ppm TWA; 1400 mg/m ³ TWA	400 ppm TWA	NIOSH: 400 ppm TWA; 1400 mg/m ³ TWA
Toluene 108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
n-Butyl acetate 123-86-4	150 ppm TWA; 710 mg/m ³ TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m ³ TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m ³ TWA
Ethyl 3-ethoxypropanoate 763-69-9	Not Established	Not Established	Not Established
1-Butanol 71-36-3	100 ppm TWA; 300 mg/m ³ TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m ³ Ceiling
Nitrocellulose 9004-70-0	Not Established	Not Established	Not Established
Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL
2-(1-Methoxy) Proxy Acetate 108-65-6	Not Established	Not Established	Not Established

8. EXPOSURE CONTROLS / PERSONAL PROTECTION / CONTROL PARAMETERS (continued)

Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m ³ TWA
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

Engineering: Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the work place. Use explosion proof equipment and good manufacturing practice. Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGHI'S TLV limit.

Other precautions: Provide respiratory protection against fumes generated during burning. Avoid prolonged contact with skin and breathing of vapors.

Protective gear: NIOSH/OSHA approved respirator types suitable for materials in section II recommended. Approved airline type respirators or hoods recommended in confined areas. Wear protective gloves/clothing/eye/face as required.

Contaminated gear: Take off immediately any contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid dispersion

Physical State: Liquid

Odor: Solvent Odor

Odor threshold: Not Applicable

pH-value: Not Applicable

Melting/Freezing point: Not Applicable

Boiling point: 56°C

Boiling range: 56 - 83°C

Flash point: -20°C, -4°F

Evaporation rate: Slower than ether

Vapor pressure: Not Applicable

Vapor density: Heavier than air

Solubilities: Not Applicable

Auto/Self-ignition temperature: Not Applicable

Decomposition temperature: Not Applicable

Viscosity: Not Applicable

VOC: Regulatory 834 gr/ltr

VOC: Actual 692 gr/ltr

VOC: Regulatory 6.96 lb/gl

VOC: Actual 5.78 lb/gl

SG: 0.90

10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or ingredients.

Chemical stability: The product is stable.

STABLE

Conditions to avoid: Avoid all sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low confined areas.

Incompatible materials: Reactive or incompatible with the following materials: Oxidizing materials

Hazardous decomposition products: This mixture is likely to exhibit the following combustion products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

MIXTURE TOXICITY

Oral Toxicity LD50: 2,280mg/kg

Inhalation Toxicity LC50: 53mg/L

COMPONENT TOXICITY

141-78-6 Ethyl acetate Inhalation LC50: 1,500 ppm (Mouse)

108-88-3 Toluene Oral LD50: 636 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat)

123-86-4 n-Butyl acetate Inhalation LC50: 390 ppm (Rat)

763-69-9 Ethyl 3-ethoxypropanoate Oral LD50: 3,200 mg/kg (Rat)

71-36-3 1-Butanol Oral LD50: 790 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit)

67-63-0 Isopropyl alcohol Oral LD50: 4,396 mg/kg (Rat)

64-17-5 Ethyl alcohol Inhalation LC50: 125 mg/L (Rat)

100-41-4 Ethylbenzene Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)

Toxicological Information: No data found

ROUTES OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Contact

Exposure to this material may affect the following organs:

Blood, Eyes, Kidneys, Liver, Central Nervous System, Reproductive System, Skin, Respiratory System

Effects of Overexposure

Carcinogenicity:

The following chemicals comprise 0.1% or more of this mixture and are listed and / or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA.

CAS Number	Description	% Weight	Carcinogen Rating
None			N/A

12. ECOLOGICAL INFORMATION

Ecological information: No data found.

Component Ecotoxicity

Ethyl acetate	96 Hr LC50 Pimephales promelas: 220 - 250 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 484 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 352 - 500 mg/L [semi-static] 48 Hr EC50 Daphnia magna: 560 mg/L [Static]
Toluene	96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old) ; 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static] 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]
n-Butyl acetate	96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through] 72 Hr EC50 Desmodemus subspicatus: 674.7 mg/L
Acetone	96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L
Ethyl 3-ethoxypropanoate	96 Hr LC50 Pimephales promelas: 62 mg/L [static] 48 Hr EC50 Daphnia magna: 970 mg/L
1-Butanol	96 Hr LC50 Pimephales promelas: 1730 - 1910 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1740 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 100000 - 500000 µg/L [static]; 96 Hr LC50 Pimephales promelas: 1910000 µg/L [static] 48 Hr EC50 Daphnia magna: 1983 mg/L; 48 Hr EC50 Daphnia magna: 1897 - 2072 mg/L [Static] 96 Hr EC50 Desmodemus subspicatus: >500 mg/L; 72 Hr EC50 Desmodemus subspicatus: >500 mg/L
Isopropyl alcohol	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L 48 Hr EC50 Daphnia magna: 13299 mg/L 96 Hr EC50 Desmodemus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodemus subspicatus: >1000 mg/L
2-(1-Methoxy) Proxy Acetate	96 Hr LC50 Pimephales promelas: 161 mg/L [static] 48 Hr EC50 Daphnia magna: >500 mg/L
Ethyl alcohol	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
Ethylbenzene	96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

This material is classified for transport as follows:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	AEROSOL, LTD QUANTITY			
IATA	UN1950, AEROSOL, FLAMMABLE	1950		2.1
IMDG	UN1950, AEROSOL, FLAMMABLE	1950		2.1

15. REGULATORY INFORMATION

Additional regulatory listings, where applicable.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

108-88-3 Toluene Carcinogen, Carcinogen

64-17-5 Ethyl Alcohol Carcinogen, Carcinogen

100-41-4 Ethylbenzene Carcinogen

This product contains the following substances subject to the reporting requirements of Section 313 of Title II of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 40

108-88-3 Toluene

71-36-3 1-Butanol

67-63-0 Isopropyl alcohol

100-41-4 Ethylbenzene

COUNTRY REGULATION ALL COMPONENTS LISTED

EU Risk Phrases

R10: Flammable

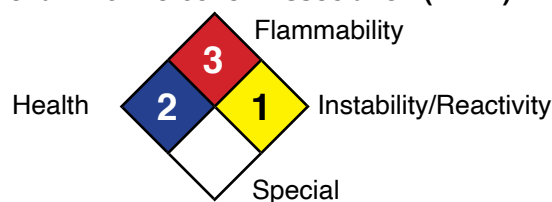
Safety Phrase

S16: Keep away from sources of ignition - No smoking

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)		
Health	2	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
Flammability	3	
Physical Hazard	1	
Personal Protection	1	

National Fire Protection Association (NFPA)



FURTHER INFORMATION

User is granted the ability to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. GLENDO, LLC. shall not be held liable for any damage resulting from handling or from contact with the above product.