

N F P A	HAZARD RATION: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT	
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1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Vinyl Liner Cleaner

1.2. Relevant identified uses of the substance or mixture and uses advised against

Liner cleaner

1.3. Details of the supplier of the safety data sheet

Clean All CNY LLC
 838 Erie Blvd. West Syracuse NY 13204
 Telephone 315-472-9189
 Email bradner@cleanallcny.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids (Category 3), H226

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal Word:

DANGER

H226 - Flammable liquid and vapour.
 Precautionary statement(s)
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 - Keep container tightly closed.
 P240 - Ground/bond container and receiving equipment.
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P403 + P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

3.1. Substance

Component	CAS #	%
Ethanol	64-17-5	25
Propylene Glycol	57-55-6	5

SECTION 4: First aid measures

4.1. Description of first aid measures

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYE CONTACT: If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIANS: Treat symptomatically and supportively

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms are listed in section 2.2

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards

Flammable Liquid. Sealed containers may rupture when heated.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Evacuate unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover liquid if possible. Use non-sparking tools and equipment. Cover spilled liquid with sand or earth. Clean up spill immediately and place in appropriate containers. Do not discharge to sewers and surface waters. Notify authorities if entry occurs. U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapors. Do not eat, drink or smoke in work area. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Protect against physical damage. Store in a cool, dry well-ventilated location away from heat or ignition sources. Containers should be bonded and grounded for transfers to avoid static sparks. Keep containers tightly closed. Containers of this material may be hazardous when empty since they retain residues. Observe all warnings and precautions listed for the product.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Component	CAS #	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1000.00000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA -TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	1,000.000 ppm 1,900.0000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	1,000.000 ppm 1,900.0000 mg/m3	USA. NIOSH Recommended Exposure Limits
		STEL	1000.0000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		

8.2 Exposure controls

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, air lined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134). Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

RESPIRATORY PROTECTION: For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA). For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area. Contact lenses pose a special hazard; Do not wear contact lenses.

GOOD HYGIENE CONDITIONS: Wash with soap and water before meals and at the end of each work shift. Good manufacturing practices require amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

AUTO IGNITION TEMPERATURE: >363°C (685°F) (Ethanol)

FLASH POINT: Closed Cup: 17°C (62°F) (Ethanol)

FORM: Liquid.

ODOR: Slight odor

SOLUBILITY IN WATER: Miscible

MELTING POINT: No Data

pH: Not Available

VAPOR DENSITY: 1.6

COLOR: Light yellow color

BOILING POINT: 77°C

SPECIFIC GRAVITY: 0.79

EVAPORATION RATE(BuAc=1): 3.1

VAPOR PRESSURE: 48 mmHg

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Will occur.

10.4 Conditions to avoid

heat, flame, and ignition sources.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

10.6 Hazardous decomposition

Carbon dioxide and carbon monoxide may form when heated to decomposition.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS# 64-17-5:

Draize test, rabbit, eye: 500 mg Severe;
 Draize test, rabbit, eye: 500 mg/24H Mild;
 Draize test, rabbit, skin: 20 mg/24H Moderate;
 Inhalation, mouse: LC50 = 39 gm/m³/4H;
 Inhalation, rat: LC50 = 20
 000 ppm/10H;
 Oral, mouse: LD50 = 3450 mg/kg;
 Oral, rabbit: LD50 = 6300 mg/kg;
 Oral, rat: LD50 = 7060 mg/kg;
 Oral, rat: LD50 = 9000 mg/kg;<BR.

CAS# 67-63-0:

Draize test, rabbit, eye: 100 mg Severe;
 Draize test, rabbit, eye: 10 mg Moderate;
 Draize test, rabbit, eye: 100 mg/24H Moderate;
 Draize test, rabbit, skin: 500 mg Mild;
 Inhalation, mouse: LC50 = 53000 mg/m³;
 Inhalation, rat: LC50 = 16000 ppm/8H;
 Inhalation, rat: LC50 = 72600 mg/m³;
 Oral, mouse: LD50 = 3600 mg/kg;
 Oral, mouse: LD50 = 3600 mg/kg;
 Oral, rabbit: LD50 = 6410 mg/kg;
 Oral, rat: LD50 = 5045 mg/kg;
 Oral, rat: LD50 = 5000 mg/kg;
 Skin, rabbit: LD50 = 12800

CAS# 67-64-1:

Dermal, guinea pig: LD50 = >9400 uL/kg;

Draize test, rabbit, eye: 20 mg Severe;
 Draize test, rabbit, eye: 20 mg/24H Moderate;
 Draize test, rabbit, eye: 10 uL Mild;
 Draize test, rabbit, skin: 500 mg/24H Mild;
 Inhalation, mouse: LC50 = 44 gm/m³/4H;
 Inhalation, rat: LC50 = 50100 mg/m³/8H;
 Oral, mouse: LD50 = 3 gm/kg;
 Oral, rabbit: LD50 = 5340 mg/kg;
 Oral, rat: LD50 = 5800 mg/kg;

Carcinogenic effects: None of the components of this product are listed as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Mutagenic effects: Not available

Teratogenic effects: Not available

Epidemiology effects: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Cancer Lists Ingredient	Known	---NTP Carcinogen---	
		Anticipated	IARC Category
Ethanol	No	No	None
Isopropyl Alcohol	No	No	3
Acetone	No	No	None

SECTION 12: Ecological information

12.1. Toxicity

ENVIRONMENTAL FATE:

When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

ENVIRONMENTAL TOXICITY:

Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°C

Fish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified)

Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min;

12.2 Persistence and degradability

No data available

12.3 Bioaccumulate potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

WASTE DISPOSAL:

Recover, reclaim or recycle when practical. Dispose of material in accordance with federal, state and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

CONTAMINATED MATERIALS:

Wash contaminated clothing before reuse.

SECTION 14: Transport information

DOT
 UN number: 1993 Class: 3 Packaging group: II
 Proper shipping name: Flammable liquid NOS
 Reportable quantity (RQ):

SECTION 15: Regulatory information

15.1. US Federal regulations

Ingredient	TSCA	EC	Japan	Australia
Water	YES	YES	YES	YES
Ethanol	YES	YES	YES	YES
Isopropyl Alcohol	YES	YES	YES	YES
Acetone	YES	YES	YES	YES

Ingredient	Korea	DSL	NDSL	Phil.
Water	YES	YES	NO	YES
Ethanol	YES	YES	NO	YES
Isopropyl Alcohol	YES	YES	NO	YES
Acetone	YES	YES	NO	YES

Ingredient	RQ	TPQ	List	Chemical Catalog
Water	NO	NO	NO	NO
Ethanol	NO	NO	NO	NO
Isopropyl Alcohol	NO	NO	YES	NO
Acetone	NO	NO	NO	NO

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Water	NO	NO	NO



Safety Data Sheet

Vinyl Liner Cleaner

Ethanol	NO	NO	NO
Isopropyl Alcohol	NO	NO	NO
Acetone	5000	NO	NO

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112 accidental release prevention: No products were found.
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
 Reactivity: No (Pure / Liquid)

STATE REGULATIONS:

CAS#64-17-5 & CAS#67-63-0 Can be found on the following state right to know lists:
 California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

PROP 65 -WARNING:

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING: This Product may contain an ingredient which is known to the State of California to cause cancer or reproductive harm. Ethanol CAS# 64-17-5 <25%

CANADA:

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHIMS Classification: B2, D2A

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists:, Korea(TCCL), Australia(AICS), China (Draft), PICCS (Philippines-RA6969), Japan (ENCS METI/MOL)

SECTION 16: Other information

Containers of this material may be hazardous when emptied; since emptied containers retain product residues (vapors, liquid, and/or solid), all hazard precautions given in this datasheet must be observed.

All toxicity and transportation data was composed through component analysis.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES. ANY MATERIAL SUPPLIED IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND WE CAN NOT GUARANTEE THAT THE HAZARDS LISTED HEREIN ARE THE ONLY HAZARDS THAT EXIST.