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SECTION 1: Identification of the substance/mixture and of the company undertaking

1.1 Product identifier

· Trade name: Varnish Softener

· Product code: PC-127

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

No further relevant information available.

· Application of the substance / the mixture: Varnish remover

1.3 Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier: Gainsborough Products, LLC 6680 Alhambra Ave. #249 Martinez, CA 94553-6105 USA

(925) 957-9277

service@gainsboroughproducts.com

1.4 Emergency telephone number:

ChemTel Inc.

+1 (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

Repr. 1B H360FD May damage fertility. May damage the unborn child.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

2-ethoxyethyl acetate

methanol

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· Hazard statements

H225 Highly flammable liquid and vapour.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

· Precautionary statements

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

· Additional information:

Restricted to professional users.

· 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319	60-70%
CAS: 111-15-9 EINECS: 203-839-2 Index number: 607-037-00-7	2-ethoxyethyl acetate Flam. Liq. 3, H226 Repr. 1B, H360FD Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-20%
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226 Eye Irrit. 2, H319; STOT SE 3, H335	10-20%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X	methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	<3%
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Index number: 606-004-00-4 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335

0////0

·SVHC

111-15-9 2-ethoxyethyl acetate

· Additional information:

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty

Coughing

Dizziness

Irritant to eyes.

Slight irritant effect on skin and mucous membranes.

Vision disorders.

Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

Vomiting.

Diarrhea.

Disorientation

· Hazards:

Danger of impaired breathing.

May cause neurotoxic effects.

May damage fertility or the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

Contains Methanol. Consult literature for specific antidotes.

If necessary oxygen respiration treatment.

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Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

Use large quantities of foam as it is partially destroyed by the product.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Protect from heat.

6.2 Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of aerosols.

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Avoid splashes or spray in enclosed areas.

Rags / metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed, metal container rated for flammable waste.

· Information about fire - and explosion protection:

Highly flammable liquid and vapour.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

• 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Provide ventilation for receptacles.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Do not store together with acids.

- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

on control param			
· Ingredients with lin	nit values that require monitoring at the workplace:		
64-17-5 ethanol			
WEL (Great Britain)	Long-term value: 1920 mg/m³, 1000 ppm		
111-15-9 2-ethoxye	111-15-9 2-ethoxyethyl acetate		
IOELV (EU)	Long-term value: 11 mg/m³, 2 ppm Skin		
WEL (Great Britain)	Long-term value: 11 mg/m³, 2 ppm Sk		
123-42-2 4-hydroxy-4-methylpentan-2-one			
WEL (Great Britain)	Short-term value: 362 mg/m³, 75 ppm Long-term value: 241 mg/m³, 50 ppm		
67-56-1 methanol			
IOELV (EU)	Long-term value: 260 mg/m³, 200 ppm Skin		
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WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm	
	Sk	
108-10-1 4-methylpentan-2-one		
IOELV (EU)	Short-term value: 208 mg/m³, 50 ppm Long-term value: 83 mg/m³, 20 ppm	
WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk, BMGV	
WEL (Great Britain)	Long-term value: 83 mg/m³, 20 ppm Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm	

- · **DNELs:** No further relevant information available.
- · PNECs: No further relevant information available.

Ingredients with biological limit values:

108-10-1 4-methylpentan-2-one

BMGV (Great Britain) 20 µmol/L

Medium: urine

Sampling time: post shift

Parameter: 4-methylpentan-2-one

8.2 Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

For large spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Laminated film gloves.

Fluorocarbon rubber (Viton)

· Not suitable are gloves made of the following materials:

Neoprene gloves

Natural rubber, NR

PVC gloves

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· Eye protection:



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment: Avoid release to the environment.
- · Risk management measures: See Section 7 for additional information.

9.1 Information on basic physical and chemical properties		
Appearance Form:	Liquid	
Colour:	Light yellow	
Odour:	Alcohol-like	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	>11,6 °C (TCC)	
Flammability (solid, gaseous):	Not applicable.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self-igniting.	
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapour mixtures are possible.	
Explosion limits		
Lower:	1,7 Vol %	
Upper:	19 Vol %	
Oxidising properties	Not determined.	
Vapour pressure at 20 °C:	59 hPa	
Density at 20 °C:	<1 g/cm³	
Relative density:	Not determined.	
Vapour density at 20 °C:	>1 g/cm³ (Air = 1)	
Evaporation rate at 20 °C:	<1 (Diethyl ether = 1)	
Solubility in / Miscibility with		
water:	Fully miscible.	



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· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

Dynamic: Not determined. **Kinematic:** Not determined.

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour.

Reacts with oxidising agents.

Reacts with strong acids.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

- · 10.4 Conditions to avoid Excessive heat.
- · 10.5 Incompatible materials Oxidizers, strong bases, strong acids
- 10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity:

Harmful if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:			
64-17-5 et	64-17-5 ethanol		
Oral	LD50	7060 mg/kg (rat)	
Inhalative	LC50/4h	20000 mg/l (rat)	
111-15-9 2	111-15-9 2-ethoxyethyl acetate		
Oral	LD50	-3900 mg/kg (rat)	
Dermal		10300 mg/kg (rabbit)	

- · Primary irritant effect
- · Skin corrosion/irritation: Slight irritant effect on skin and mucous membranes.
- · Serious eye damage/irritation:
- Causes serious eve irritation.
- · Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

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ſ	· IARC (Int	ernational Agency for Research on Cancer):	
ſ	64-17-5	ethanol	1
Ī	108-10-1	4-methylpentan-2-one	2B

· Probable routes of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes.

Harmful if swallowed, in contact with skin or if inhaled.

- · Repeated dose toxicity: Danger of very serious irreversible effects.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity:

May damage fertility. May damage the unborn child.

- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- · Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

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Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN1263

14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1,3 gal).

· **DOT, IATA** Paint related material

· **ADR** 1263 PAINT RELATED MATERIAL • **IMDG** PAINT RELATED MATERIAL

- · 14.3 Transport hazard class(es)
- · DOT



· Class 3 Flammable liquids.

· Label

· ADR



· Class 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

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· Label	3	
· 14.4 Packing group · DOT, ADR, IMDG, IATA	II	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-E</u>	
· 14.7 Transport in bulk according to An of Marpol and the IBC Code	nex II Not applicable.	
· Transport/Additional information:		
· ADR · Transport category · Tunnel restriction code	2 D/E	
· IATA	Limited quantity by air: 1L	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Carcinogenic Categories

· IARC (International Agency for Research on Cancer)			
64-17-5	ethanol	1	
108-10-1	4-methylpentan-2-one	2B	

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

 111-15-9 2-ethoxyethyl acetate
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

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H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H319 Causes serious eye irritation.H331 Toxic if inhaled.

H332 Harmful if inhaled.H335 May cause respiratory irritation.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com