SAFTEY DATA SHEET

Urocare Products, Inc.

SECTION 1 - IDENTIFICATION

Product Name: **Uro-Bond Thinner**
Product Code(s): 501003

Manufacturer Name: **Urocare Products, Inc.**
2735 Melbourne Avenue
Pomona, CA 91767-1931
U. S. A.

Telephone Number: +1 (909) 621-6013

Emergency Number: **+1 (800) 457-4280** (US & Canada)
+1 (323) 352-3500 (International)

Fax Number: +1 (909) 621-4436

Recommended Use: Possible applications for Uro-Bond Thinner might include, but are not limited to: A dilutant for Uro-Bond silicone adhesives, a degreasing agent or as a solvent.

Restrictions on Use: Not recommended as for use as an adhesive remover.

SECTION 2 - HAZARD(S) INDENTIFICATION

Hazard Identification: Ethyl Acetate CAS 141-78-6 Purity: >99.5%
Trace Impurities: Ethanol

Hazard Category:

Index No.	International Chemical Identification	EC No.	CAS No.	Classification		Labeling			Specific Conc. Limits, M-Factors
				Hazard Class and Category Code(s)	Hazard Statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard Statement Code(s)	
607-022-00-5	Ethyl Acetate	205-500-4	141-78-6	Flam. Liq. 2 Eye Irritant 2 STOT SE 3	F Xi R:11-36-66-67	GHS02 GHS07	H225 H319 H336	EUH066	100

Labeled Contents:

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Exclamation point.

Signal Word: Danger.

Hazard Warning Information:
H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness.

Hazard Prevention Measures:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.

Hazard Response:
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Supplemental:
EUH066: Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Emergency Overview: DANGER! Highly flammable. Irritating to eyes. Vapors may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. May cause central nervous system effects. May cause skin and respiratory tract irritation. May be harmful by inhalation, in contact with skin and if swallowed. Ethyl acetate is a colorless liquid with a sweet odor.

Potential Chronic Health Effects:

Carcinogenic Effects: No reported carcinogenic effects; low carcinogenicity potential.
Mutagenic Effects: No assigned mutagenic effect classification.
Reproduction Toxicity: No mammalian developmental/reproductive effects reported.

SECTION 3 - COMPOSITION & INFORMATION ON INGREDIENTS

This product is classified as a “flammable liquid” according to Title 29 of the Code of Federal Regulations, OSHA Section 1910.1200©, page 463. *“Flammable liquid”* means any liquid having a flashpoint below 100° F (37.8° C), except any mixture having components with flashpoints of 100° F (37.8° C), or higher, the total volume of which make up 99 percent or more of the total volume of the mixture. This product does not contain asbestos or polychlorinated biphenyls.

Synonym(s): Ethyl Acetate, Acetic Ether, Ethyl Ethanoate, Acetic Acid Ethyl Ester, Acetic Ester, Acetoxyethane, Ethyl Acetic Ester, Silicone dispersion.
Chemical Name: Silicone dispersion.
Chemical Formula: Proprietary

Hazardous Components (Specific chemical identity/ Common name):

SOLIDS: None.

LIQUIDS: 100% Ethyl Acetate, CAS #141-78-06, EINECS #205-500-4, Flammable

SECTION 4 - FIRST AID MEASURES

Any material aspirated during vomiting may cause lung injury; therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means of least likely to cause aspiration (e.g. gastric lavage after endotracheal intubation).

Skin Contact: Remove contaminated clothing and wash skin with soap and water. Wash contaminated clothing before reuse.

Eye Contact: Flush with water and continue washing for at least 15 minutes. Obtain medical attention if symptoms persist.

Ingestion: If individual is fully conscious, give two glasses of water or milk at once. Do not induce vomiting. Obtain medical attention immediately.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed: Irritant effects, drowsiness, dizziness, narcosis, nausea, headache, vision impairment. Drying and defatting of skin.

Indication of immediate medical attention and special treatment needed: No additional information available.

Always seek medical attention if irritation continues.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Apply alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires.

Special Fire Fighting Procedures: Do not spray a solid stream of water or foam directly into a pool of hot, burning liquid as the may cause frothing and may intensify the fire. Use NIOSH approved positive-pressure self-contained breathing apparatus when fighting fire in an enclosed area.

Unusual Fire and Explosion Hazards: Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this product may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. Flammable Liquid. Vapor may be ignited by static sparks. User proper bonding and grounding during liquid transfer as described in the National Fire Protection Association (NFPA) document 77. This product contains polydimethylsiloxane which can generate formaldehyde as a byproduct of oxidative thermal decomposition at temperatures greater than 300° F (150° C). See section 10 for further information.

Special Fire Fighting Equipment: Use NIOSH approved positive-pressure self-contained breathing equipment and protective clothing should be worn in fighting fires involving chemicals which produce carbon, carbon dioxide, carbon monoxide, etc.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Take care floor surface will be slippery at site of spillage.

Advice for Non-Emergency Personnel: Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with the material; do not breath vapors or aerosol. If possible, provide additional ventilation.

Advice for Emergency Responders: Do not take action without proper training and emergency equipment. See Section 8 for additional information. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spiller material. Maintain adequate ventilation and wear appropriate respiratory protection.

Methods and materials for containment: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant. Contain and collect spillage using appropriate personal protective equipment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handing chemical products or if a risk assessment indicates this is necessary.

Small Spills: Collect and contain spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations.

Large Spills: Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Collect and contain spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations. Use spark-proof tools and explosion proof equipment. Contaminated absorbent material may pose the same hazard(s) as the spilled product.

Protective Equipment:

EYES: Wear standard goggles or face shield—Safety glasses at a minimum.

SKIN: Washing with soap and water after use/handling is adequate. Remove contaminated clothing and shoes as-soon-as practical and clean thoroughly before reuse. Rubber or plastic gloves are recommended.

SECTION 7 - HANDLING AND STORAGE

Steps to be taken in the event of spillage or chemical release: Wear suitable protective clothing.

Waste Disposal Methods: The product is NOT biodegradable. In its purchased form (3 fluid ounces or less), the product does not require any special disposal methods; however, disposal in accordance with applicable local, county, state and federal regulations is recommended.

Precautions to be taken in Handling and Storage: Normal precautions common to safe manufacturing practices should be followed in handling and storage. Keep container closed, in a cool, dry place. Keep well ventilated. Do not breathe fumes and avoid skin contact. Flammable. Harmful if swallowed contacts skin and/or inhaled.

Other Precautions: WARNING! Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "auto ignition" or "ignition" temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes. Ignition may occur at typical elevated-temperature process conditions, especially in processes operation under vacuum if subjected to sudden ingress of air or outside process equipment operating under elevated pressure if sudden escape of vapors or mists into the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained—refer to § 10.6 "Incompatibility".

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Personal, workplace or environmental monitoring may be necessary to ensure exposures are below recommended and legal limits.

Exposure Limits:

ETHYL ACETATE (141-78-6)	
ACGIH:	400 ppm TWA
NIOSH:	400 ppm TWA; 1400 mg/m3 TWA
	2000 ppm IDLH (10% LEL)
OSHA (US):	400 ppm TWA; 1400 mg/m3 TWA
Mexico:	400 ppm TWA LMPE-PPT; 1400 mg/m3 TWA LMPE-PPT
EU	400 ppm; 1500 mg/m3

Exposure Limits for Chemicals which may be generated during processing: No components listed.

Exposure Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The

engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal Protective Measures:

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin and Body Protection: Flame retardant antistatic protective clothing.

Hand Protection: No special requirements for small amounts. For larger amounts, chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is required.

Glove Material: Butyl or nitrile rubber. Glove thickness should be 0.7 mm or thicker. Break through time: > 240 minutes.

Respiratory System: No special requirements for small amounts. For larger amounts, a properly fitted air purifying respirator or air supply respirator should be worn if a risk assessment indicates that respiratory protection is necessary. Respirator selection must be based upon known or measured levels of exposure.

Other Protective Equipment: None required.

Environmental Exposure Controls: Ventilation and engineering controls to protect workers and ventilate work area to at or below recommended employee exposure levels. Technical measures are preferred over use of personal protective equipment. Environmental controls, such as scrubber or thermal oxidizer may be required to prevent process releases to the atmosphere. Do not empty into drains—risk of explosion.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid and suspension.
Color/Appearance:	A clear to yellowish liquid.
Physical Form:	Volatile Liquid.
Odor:	Sweet, ethereal/solvent odor.
Odor Threshold:	Not determined.
PH:	Not available.
Taste:	Bittersweet, wine-like burning taste.
Freezing Point:	Not applicable.
Melting Point:	Not applicable.
Boiling Point:	> 400° F (204° C).
Evaporation Rate:	< 1 (Ether=1).
Flash Point:	24° F (-4.5° C), Tag Closed Cup (TCC).
LEL:	2.2%
OSHA Flammability Class:	IB
UEL:	11%
Autoignition Point:	798.8° F (426° C)
Dielectric Strength:	Not determined.
Critical Temperature:	482° F (250° C).
Percent Volatile by Volume:	100%.
Pour Point:	Not determined.
Solubility in Water (%):	Insoluble.
Specific Gravity (water=1):	1.05.
Vapor Density (air=1):	21.8.
Vapor Pressure:	1.5mm at 320° F (160° C).
Volatility:	100%.

Molecular Weight: 88.11.
Molecular Formula: $C\text{-}H_3\text{-}C\text{-}O_2\text{-}C_2\text{-}H_5$
Viscosity: Not determined.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable.
Solubility: Soluble by ether, benzene, alcohol, acetone or chloroform.
Instability Temperature: Not available.
Conditions of Instability: Heat, ignition sources (flames, sparks, static), incompatible materials.
Corrosivity: Non-corrosive in presence of glass.
Conditions to Avoid: Open flames, hot surfaces and electric arcs and other sources of ignition.

Incompatibility: Ignites on contact with potassium tert-butoxide. Violent reaction with chlorosulfonic acid. Avoid contact with oleum, oxidizers that can cause a reaction—e. g. acids, alkalis, powdered aluminum, zinc, nitrates, etc.

Decomposition Products: Burning can produce oxides of carbon, oxides of silicon, hydrogen chloride and phosgene (small amounts). Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the product of combustion may result in irritation of the respiratory tract. Traces of formaldehyde may be generated due to oxidative thermal decomposition at temperatures grater than 300° F (150° C). Exposure to formaldehyde can cause adverse effect such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential carcinogen. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity to Animals:

TESTS	RESULTS
Ethyl Acetate:	
Acute Oral LD_{50} (Rat):	5620 mg/kg (RTECS)
Acute Inhalation LC_{50} (Rat):	5.86 Mg/l 8 hours (RTECS)
Acute Dermal LD_{50} (Rabbit):	> 18,000 mg/kg (RTECS)
Skin Irritation (Rabbit):	None to very slight (IUCLID)
Skin sensitization (Guinea Pig):	None (IUCLID)
Eye Irritation:	None (IUCLID)
Ames test:	Negative (IUCLID)
Mutagenicity:	Negative, Mammalian cell chromosome aberration (US NTP)
Specific target organ toxicity – single exposure:	Central nervous system, drowsiness, dizziness
Specific target organ toxicity – repeated exposure:	Not classified as specific target organ toxicity.
Aspiration Hazard:	Product may be an aspiration hazard.

Teratogenicity: Not available.
Chronic Exposure: Not available.
Reproductive Toxicity: Not available.

Chronic Effects on Humans:

Carcinogenic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Other Toxic Effects: Headache and nausea in high concentrations. Causes damage to the following organs: mucous membranes and upper respiratory tract. May cause damage to the following organs: blood, kidneys, liver and central

nervous system (CNS). Hazardous in case of ingestion or inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to Fish (LC_{50}): 230 mg/L (IUCLID: 96 hours, fathead minnow).

Toxicity to Daphnia and Other Aquatic Invertebrates: 720 mg/L (IUCLID: 48 hours, Daphnia magna).

Toxicity to Algae: 3300 mg/L (IUCLID: 48 hours, Scenedesmus quadricauda).

Toxicity to Bacteria: 2900 mg/L (IUCLID: 16 hours, Pseudomonas putida).

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely; however, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Chemical Fate Information: Complete information not yet available.

Other Adverse Effects: Additional ecological information: Do not allow product to enter surface waters, wastewater or soil.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods: The product is NOT biodegradable. In its purchased form (3 fl. ozs. (88.7 mL.) or less), the product does not require any special disposal methods; however, disposal in accordance with applicable local, county, state and federal regulations is recommended.

SECTION 14 - TRANSPORTATION INFORMATION

Material identification:

Authority	Proper Shipping Name	Hazard Class	Hazard Label	UN #	Packing Group
DOT†	Consumer Commodity ORM-D	N/A	N/A	N/A	N/A
TDG/ADR†	Consumer Commodity ORM-D	N/A	N/A	N/A	N/A
RID	Ethyl Acetate	3	Flammable Liquid	UN1173	II
ICAO/IATA	Ethyl Acetate	3	Flammable Liquid	UN1173	II
IMO/IMDG	Ethyl Acetate	3	Flammable Liquid	UN1173	II

Fire Diamond

† Labeling: Product is exempt from labeling requirements in containers under 0.3 gallons (1 Liter). Regulation 49 CFR § 173.118(a).

ADR Tunnel Code Restrictions: This list contains tunnel restriction codes for those substances and/or chemically related entries which are found in chapter 3.2 of the ADR regulations.

ETHYL ACETATE (141-78-6) Restriction(s): D/E {UN1173} (II)

SECTION 15 - REGULATORY COMPLIANCE INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

RCRA Hazard Class (40CFR 261, if discarded): Not applicable in its purchased form.

C.H.I.P. Regulations:

Designation: Uro-Bond® Thinner

Symbol(s): F, Xi

Indication of Danger: Flammable, Irritant

Risk Phrases:
R11: Highly flammable.
R20: Harmful by inhalation.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapors may cause drowsiness and dizziness.

Safety Phrases:
S2: Keep out of reach of children.
S3: Keep container tightly closed.
S7: Keep container in a cool place.
S8: Keep container dry.
S9: Keep container in a well ventilated place.
S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.

C.H.I.P. Regulation 1993 Requirements: Physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified or consumed within the EEC. Components present in this product at a level, which could require reporting under the statute, are: Ethyl Acetate.

US Federal Regulations: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

CERCLA: Ethyl Acetate, 5000 lbs. final RQ: 2270 kg final RQ.

SARA Section(s) 302/304: Components present in this product at a level which could require reporting under the statute are: None.

SARA Section(s) 311/312 (40 CFR 370 Subparts B and C): Acute Health: Yes, **Chronic Health:** No, **Fire:** Yes, **Pressure:** No, **Reactive:** No.

SARA Section(s) 313 (40 CFR 372): Components present in this product at a level, which could require reporting under the statute, are: None.

RCRA: Product has not been evaluated for RCRA characteristics.

OSHA: This SDS has been prepared in accordance with OSHA Regulation No. 29 CFR 1910.1200 to comply with the Hazard Communication Standard (HCS). Important: This information must be included in all SDS that are copied and distributed for this product.

STATE RIGHT-TO-KNOW COMPLIANCE:

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS No.	CA	CN	FL	IL	LA	MA	MN	NJ	NY	RI	PA
ETHYL ACETATE	141-78-6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Not listed under California Proposition 65.

EPA Hazard Categories: Fire Hazard, Immediate Health Hazard, Delayed Health Hazard.

Canadian WHMIS Ingredient Disclosure List (IDL): Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

ETHYL ACETATE (141-78-6) 100%
CLASS B-2: Flammable liquid with a flash point lower than 37.8° C (100° F).

Germany Water Classification (WGK):
ETHYL ACETATE (141-78-6)
ID Number 95, Hazard Class 1 - Low hazard to waters.

Symbol(s):
F: Highly Flammable
Xi: Irritant

Risk Phrases:
R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapors may cause drowsiness and dizziness.

Safety Phrases:
S2: Keep out of reach of children.
S3: Keep container tightly closed.
S7: Keep container in a cool place.
S8: Keep container dry.
S9: Keep container in a well ventilated place.
S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.

Component Analysis – Inventory:

Component	CAS No.	US	CA	EU	AU	PH	JP	KR	CN	NZ
ETHYL ACETATE	141-78-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

Globally Harmonized System of Classification and Labeling (GHS): The listed component(s) of this material have been checked for country-specific published classifications according to the Globally Harmonized System of Classification and Labeling (GHS). The results of the queries are displayed below. Please see the individual country listings, as additional interpretations or reference information may be available.

European Union (EU) GHS Classifications: Classifications below according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

ETHYL ACETATE (141-78-6)

Flammable liquids – Category 2 — **H225**: Highly flammable liquid and vapor.
Serious eye damage/eye Irritation – Category 2 — **H319**: Causes serious eye irritation.
Single exposure – Category 3 — **H336**: May cause drowsiness or dizziness.

European Union GHS Labeling Information: Labeling information below is according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Exclamation Point.

Signal Word: Danger

Hazards(s):
H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.

Response:
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Supplemental:
EUH066: Repeated exposure may cause skin dryness or cracking.

Japan GHS Classifications: Classifications below published under Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)).

ETHYL ACETATE (141-78-6)

Flammable liquids – Category 2	**H225**: Highly flammable liquid and vapor.
Serious eye damage/eye irritation – Category 2B	**H320**: Causes eye irritation.
Specific target organ toxicity – Single exposure – Category 3	**H335**: May cause respiratory irritation.
Specific target organ toxicity – Single exposure – Category 3	**H336**: May cause drowsiness or dizziness.

Japan GHS Labeling Information: Labeling information below is according to classifications published by Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals. (GHS).

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Exclamation Point.

Signal Word: Danger

Hazards(s):
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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.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.

Response:
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Supplemental:
EUH066: Repeated exposure may cause skin dryness or cracking.

Korea GHS Classifications (SV): Classifications below published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

ETHYL ACETATE (141-78-6)

MOE:	Flammable liquids – Category 2	**H225**: Highly flammable liquid and vapor.
	Skin corrosion/irritation – Category 2	**H315**: Causes skin irritation.
	Specific target organ toxicity – Single exposure – Category 3	**H335**: May cause respiratory irritation.
MOEL:	Flammable liquids – Category 2	**H225**: Highly flammable liquid and vapor.
	Specific target organ toxicity – Single exposure – Category 1	**H370**: Causes damage to respiratory system.
	Specific target organ toxicity – Single exposure – Category 3	**H336**: May cause drowsiness or dizziness.
NEMA:	Flammable liquids – Category 2	**H225**: Highly flammable liquid and vapor.

Korea GHS Labeling Information: Classifications below published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

Ministry of Environment (MOE):

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Exclamation Point.

Signal Word: Danger

Hazards(s):
H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H335: May cause respiratory irritation.

Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.

Response:
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment (see treatment instructions on this label).
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Ministry of Employment and Labor (MOEL):

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Health, Exclamation Point.

Signal Word: Danger

Hazards(s):
H225: Highly flammable liquid and vapor.
H370: Causes damage to organs.
H336: May cause drowsiness or dizziness.

Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Response:
P308+P313: IF exposed or concerned: Get medical advice/attention.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364: Take off contaminated clothing and wash it before reuse.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Specific treatment (see treatment instructions on this label).
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Office of National Emergency Management (NEMA, physical hazards only):

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Health, Exclamation Point.

Signal Word: Danger

Hazards(s):
H336: May cause drowsiness or dizziness.

Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.

Response:
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 alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

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

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

New Zealand GHS Classifications: Classifications below published under Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)).

ETHYL ACETATE (141-78-6)

Flammable liquids – Category 2	**H225**: Highly flammable liquid and vapor.
Acute toxicity – Oral – Category 5	**H303**: May be harmful if swallowed.
Acute toxicity – Inhalation – Category 5	**H333**: May be harmful if inhaled.
Serious eye damage/eye irritation – Category 2A	**H319**: Causes serious eye irritation.
Specific target organ toxicity – Repeated exposure – Inhalation – Category 2	**H373**: May cause damage to blood, brain, liver, thyroid gland, adrenal gland and/or body weight through prolonged or repeated exposure if inhaled.

New Zealand GHS Labeling Information: Labeling information below is according to classifications published by Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

ETHYL ACETATE (141-78-6)
Symbol(s): Flame, Health, Exclamation Point.

Signal Word: Danger

Hazards(s):
H225: Highly flammable liquid and vapor.
H303: May be harmful if swallowed.
H333: May be harmful if inhaled.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.

Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.

Response:
P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remover contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P314: Get medical advice/attention if you feel unwell.
P370+P378: In case of fire: Use alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

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

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Taiwan GHS Classifications: Information below presented according to Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs. This agency has published a series of standards (CNS 150301-27 Chemical Classification and Labeling) which provide guidance on classification and labeling of chemicals according to GHS.

ETHYL ACETATE (141-78-6)

Flammable liquids – Category 2 — **H225**: Highly flammable liquid and vapor.
Serious eye damage/eye irritation – Category 2A — **H319**: Causes serious eye irritation.

Taiwan GHS Labeling Information: Labeling information below according to classifications published by Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs. This agency has published a series of standards (CNS 150301-27 Chemical Classification and Labeling) which provide guidance on classification and labeling of chemicals according to GHS.

ETHYL ACETATE (141-78-6)

Symbol(s): Flame, Exclamation Point.

Signal Word: Danger

Hazards(s):
H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
Prevention:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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.
P264: Wash hands thoroughly after handling.

Response:
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.
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 alcohol-type or universal-type foams applied by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires for extinction.

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

Disposal:
P501: Dispose of contents/container in accordance with applicable local, county, state and federal regulations.

Chemical Safety Assessment: Urocare has not conducted a chemical safety assessment for this product.

SECTION 16 - OTHER INFORMATION

Training Advice: Provide safety information, instruction and training to operators handling Ethyl Acetate.

The information and recommendations herein are taken from data contained in independent, industry recognized references. Although reasonable care has been taken in the preparation of the information herein, Urocare Products, Inc. makes no guarantee, warranty (express or Implied) or other representation and assumes no responsibility as to the

accuracy or suitability of such information for application of the information, since conditions of its use are beyond the control of these companies. Urocare Products, Inc. shall not bear any liability whatsoever for any loss or damage incurred in connection with the use of this substance.

Since the use of this information and the conditions of use of the product are not within the control of Urocare products, Inc., users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety of employees and customers.

Acronyms/Abbreviations:

CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
EPA: Environmental Protection Agency
EU: European Union
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HCS: Hazard Communication Standard
HMIS: Hazardous Materials Identification System
IARC: International Agency for the Research on Cancer
IATA: International Air Transport Authority
IDL: Ingredients Disclosure List
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
IMO: International Maritime Organization
ISO: International Standards Organization
LC_{50}: Lethal concentration 50
LD_{50} : Lethal dose 50
mg/kg: Milligram per kilogram
ml/kg: Milliliter per kilogram
MSDS: Material Safety Data Sheet
NTP: Nation Toxicology Program
OSHA: Occupational Safety and Health Administration
RCRA: Resource Conservation and Recovery Act
SDS: Safety Data Sheet
TSCA: Toxic Substances Control Act
UN: United Nations
WHMIS: Workplace Hazardous Materials Information System
CTDG: Canadian Transportation of Dangerous Goods

Urocare Products, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention as necessary or appropriate to the use and understanding of the data contained in the SDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

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