



## Safety Data Sheet

Material Name: Elmer's Multi-Purpose Spray Adhesive - 2017 Compliant

SDS ID: SDS-137

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

Elmer's Multi-Purpose Spray Adhesive - 2017 Compliant

#### Synonyms

E451, E452, 60451, E6451B, E6452B

#### Chemical Family

Adhesive

#### Product Use

Adhesive

#### Restrictions on Use

None known

#### Details of the supplier of the safety data sheet

Newell Office Brands

Product of Newell Office Brands, Inc.

6655 Peachtree Dunwoody Rd. NE

Atlanta, GA 30328

www.elmers.com

Phone: 1.888.435.6377

Emergency Phone #: 1.888.516.2502

### Section 2 - HAZARDS IDENTIFICATION

#### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Aerosols - Category 1

Gases Under Pressure - Compressed gas

Aspiration Hazard - Category 1

Serious Eye Damage/Eye Irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure - Category 3

Hazardous to the Aquatic Environment - Acute - Category 2

Hazardous to the Aquatic Environment - Chronic - Category 2

#### GHS Label Elements

##### Symbol(s)



#### Signal Word

Danger

#### Hazard Statement(s)

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

Causes serious eye irritation.



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May cause drowsiness or dizziness.  
Toxic to aquatic life with long lasting effects.

### Precautionary Statement(s)

#### Prevention

Keep away from heat/sparks/open flame/hot surfaces - No smoking.  
Pressurized container: Do not pierce or burn, even after use.  
Do not spray on an open flame or other ignition sources.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Avoid release to the environment.

#### Response

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
Do NOT induce vomiting.  
Collect spillage.

#### Storage

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Disposal

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

#### Statement(s) of Unknown Aquatic Toxicity

30% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.  
30% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
79-20-9	Methyl acetate	20 - 40
75-37-6	1,1-Difluoroethane	10 - 20
67-64-1	Acetone	10 - 20
110-82-7	Cyclohexane	2.5 - 10
115-10-6	Dimethyl ether	2.5 - 10
74-98-6	Propane	2.5 - 10

The chemical identity and/or percentage of composition is being withheld as a trade secret.



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### Section 4 - FIRST AID MEASURES

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing and wash it before reuse.

#### Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

#### Ingestion

Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Aspiration into the lungs may result in pulmonary edema and pneumonitis.

#### Most Important Symptoms/Effects

##### Acute

May cause respiratory irritation, eye irritation, skin irritation. May cause drowsiness or dizziness. Aspiration may result in pneumonitis with pulmonary edema.

##### Delayed

May be fatal if swallowed and enters airways.

#### Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

### Section 5 - FIRE FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

regular dry powder, alcohol resistant foam, water, carbon dioxide.

##### Unsuitable Extinguishing Media

Do not use water jet.

#### Special Hazards Arising from the Chemical

Extremely flammable aerosol. Contains gas under pressure, may explode when heated. Pressurized containers may rupture or explode if exposed to sufficient heat. Irritating and toxic gases or fumes may be released during a fire.

#### Advice for firefighters

Vapors are heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Extremely flammable aerosol. Pressurized container: may burst if heated.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. In case of fire and/or explosion do not breathe fumes.

#### Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.



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### Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Wear personal protective clothing and equipment, see Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind and keep out of low areas. Eliminate all sources of ignition. Stop leak if possible without personal risk. Move containers away from spill to a safe area. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewers, basements, or confined areas.

#### Environmental Precautions

Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### Section 7 - HANDLING AND STORAGE

#### Precautions for Safe Handling

Pressurized container: Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Do not eat, drink or smoke when using this product. Do not puncture container. Ground any equipment used in handling. Keep away from heat, sparks and flame. Do not cut, puncture, or weld on or near this container. Do not reuse containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes and skin. Avoid repeated or prolonged contact. Use only in well-ventilated areas. Wash hands thoroughly after handling. Do not empty into drains.

#### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Keep away from incompatible materials. Keep away from heat, sparks and flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Keep out of reach of children.

#### Incompatible Materials

strong oxidizing agents, nitrates

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component Exposure Limits

Methyl acetate	79-20-9
ACGIH:	200 ppm TWA
	250 ppm STEL
NIOSH:	200 ppm TWA ; 610 mg/m <sup>3</sup> TWA
	250 ppm STEL ; 760 mg/m <sup>3</sup> STEL
	3100 ppm IDLH (10% LEL )



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OSHA (US):	200 ppm TWA ; 610 mg/m <sup>3</sup> TWA
Mexico:	200 ppm TWA VLE-PPT ; 610 mg/m <sup>3</sup> TWA VLE-PPT
	250 ppm STEL [PPT-CT ] ; 760 mg/m <sup>3</sup> STEL [PPT-CT ]
<b>Acetone</b>	<b>67-64-1</b>
ACGIH:	250 ppm TWA
	500 ppm STEL
NIOSH:	250 ppm TWA ; 590 mg/m <sup>3</sup> TWA
	2500 ppm IDLH (10% LEL )
Europe:	500 ppm TWA ; 1210 mg/m <sup>3</sup> TWA
OSHA (US):	1000 ppm TWA ; 2400 mg/m <sup>3</sup> TWA
Mexico:	1000 ppm TWA VLE-PPT ; 2400 mg/m <sup>3</sup> TWA VLE-PPT
	1260 ppm STEL [PPT-CT ] ; 3000 mg/m <sup>3</sup> STEL [PPT-CT ]
<b>Cyclohexane</b>	<b>110-82-7</b>
ACGIH:	100 ppm TWA
NIOSH:	300 ppm TWA ; 1050 mg/m <sup>3</sup> TWA
	1300 ppm IDLH (10% LEL )
Europe:	200 ppm TWA ; 700 mg/m <sup>3</sup> TWA
OSHA (US):	300 ppm TWA ; 1050 mg/m <sup>3</sup> TWA
Mexico:	300 ppm TWA VLE-PPT ; 1050 mg/m <sup>3</sup> TWA VLE-PPT
	375 ppm STEL [PPT-CT ] ; 1300 mg/m <sup>3</sup> STEL [PPT-CT ]
<b>Dimethyl ether</b>	<b>115-10-6</b>
Europe:	1000 ppm TWA ; 1920 mg/m <sup>3</sup> TWA
<b>Propane</b>	<b>74-98-6</b>
ACGIH:	(See Appendix F: Minimal Oxygen Content, explosion hazard )
NIOSH:	1000 ppm TWA ; 1800 mg/m <sup>3</sup> TWA
	2100 ppm IDLH (10% LEL )
OSHA (US):	1000 ppm TWA ; 1800 mg/m <sup>3</sup> TWA



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**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**Acetone (67-64-1)**

25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific )

**Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Glove Recommendations**

Wear protective gloves.

**Protective Materials**

When using do not smoke. Observe good hygiene and safety practices when handling this product. Remove contaminated clothing and wash it before reuse.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Not available	<b>Physical State</b>	liquid
<b>Odor</b>	Not available	<b>Color</b>	Not available
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	124.18 °F [100 C ] (estimated )
<b>Boiling Point Range</b>	Not applicable	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	-156 °F [PROPELLANT ] (estimated )
<b>Lower Explosive Limit</b>	3 % (estimated )	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	14.7 % (estimated )	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available



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Physical Form	aerosol	Molecular Weight	Not available
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### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

Under normal conditions, no hazard is expected.

#### Chemical Stability

Stable under normal conditions of use.

#### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

#### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid friction and static electricity. Avoid contact with incompatible materials.

#### Incompatible Materials

strong oxidizing agents, nitrates

#### Hazardous decomposition products

oxides of carbon

### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Inhalation

May be fatal if swallowed and enters airways. Prolonged exposure can cause nausea, dizziness, headache, and narcotic effects. May cause drowsiness or dizziness.

##### Skin Contact

Prolonged or repeated skin contact may cause irritation.

##### Eye Contact

Causes serious eye irritation.

##### Ingestion

May be fatal if swallowed and enters airways. Aspiration into the lungs may cause chemical pneumonia.

#### Acute and Chronic Toxicity

##### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Methyl acetate (79-20-9)

Oral LD50 Rat >5 g/kg

Dermal LD50 Rabbit >5 g/kg

Inhalation LC50 Rat 16000 ppm 4 h

##### Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Dermal LD50 Rabbit >15700 mg/kg

Inhalation LC50 Rat 50100 mg/m<sup>3</sup> 8 h

##### Cyclohexane (110-82-7)

Oral LD50 Rat 12705 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat 13.9 mg/L 4 h

##### Dimethyl ether (115-10-6)



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Inhalation LC50 Rat 164000 ppm 4 h

**Propane (74-98-6)**

Inhalation LC50 Rat 658 mg/L 4 h

### Product Toxicity Data

#### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

#### Immediate Effects

Causes respiratory irritation, skin irritation, eye irritation. May cause drowsiness or dizziness. Aspiration into the lungs may result in pulmonary edema and pneumonitis.

#### Delayed Effects

May be fatal if swallowed and enters airways.

#### Irritation/Corrosivity Data

May cause respiratory irritation, eye irritation. Prolonged or repeated skin contact may cause irritation.

#### Respiratory Sensitization

No information available for the product.

#### Dermal Sensitization

no effects expected.

#### Component Carcinogenicity

Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

#### Germ Cell Mutagenicity

No information available for the product.

#### Tumorigenic Data

No information available for the product.

#### Reproductive Toxicity

No information available for the product.

#### Specific Target Organ Toxicity - Single Exposure

respiratory system.

#### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

#### Aspiration hazard

Aspiration Hazard. May be fatal if swallowed and enters airways.

#### Medical Conditions Aggravated by Exposure

No data available.





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### Section 12 - ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxic to aquatic life with long lasting effects.

#### Component Analysis - Aquatic Toxicity

<b>Methyl acetate</b>	<b>79-20-9</b>
Fish:	LC50 96 h Pimephales promelas 295 - 348 mg/L [flow-through ]; LC50 96 h Brachydanio rerio 250 - 350 mg/L [static ]
Algae:	EC50 72 h Desmodesmus subspicatus >120 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 1026.7 mg/L IUCLID
<b>Acetone</b>	<b>67-64-1</b>
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static ]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [Static ] EPA ; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
<b>Cyclohexane</b>	<b>110-82-7</b>
Fish:	LC50 96 h Pimephales promelas 3.96 - 5.18 mg/L [flow-through ]; LC50 96 h Pimephales promelas 23.03 - 42.07 mg/L [static ]; LC50 96 h Lepomis macrochirus 24.99 - 44.69 mg/L [static ]; LC50 96 h Poecilia reticulata 48.87 - 68.76 mg/L [static ]
Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID
Invertebrate:	EC50 48 hr 0.9 mg/L

### Section 13 - DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose in accordance with all applicable regulations. Do not puncture container.

#### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

#### Component Marine Pollutants (IMDG)

Not a marine pollutant.

#### US DOT Information:

**Shipping Name:** AEROSOLS

**Hazard Class:** 2.1

**UN/NA #:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may



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still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently. (MARINE POLLUTANT )

**IATA Information:**

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. MARINE POLLUTANT (Passenger and cargo aircraft: Allowed with restrictions; Cargo aircraft only: Allowed with restrictions. )

**IMDG Information:**

**Shipping Name:** AEROSOLS

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Packaging Exceptions: LTD QTY (Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable. ) (MARINE POLLUTANT )

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Methyl acetate</b>	<b>79-20-9</b>
IBC Code:	Category Z
<b>Cyclohexane</b>	<b>110-82-7</b>
IBC Code:	Category Y

### Section 15 - REGULATORY INFORMATION

**U.S. 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 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Acetone</b>	<b>67-64-1</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Cyclohexane</b>	<b>110-82-7</b>
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ



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**SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories**

**Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: No**

**SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories**

Flammable; Gas Under Pressure; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

### U.S. State Regulations

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

Component	CAS	CA	MA	MN	NJ	PA
<b>Methyl acetate</b>	<b>79-20-9</b>	Yes	Yes	Yes	Yes	Yes
<b>1,1-Difluoroethane</b>	<b>75-37-6</b>	No	Yes	No	Yes	No
<b>Acetone</b>	<b>67-64-1</b>	Yes	Yes	Yes	Yes	Yes
<b>Cyclohexane</b>	<b>110-82-7</b>	Yes	Yes	Yes	Yes	Yes
<b>Dimethyl ether</b>	<b>115-10-6</b>	No	Yes	Yes	Yes	Yes
<b>Propane</b>	<b>74-98-6</b>	No	Yes	Yes	Yes	Yes

**Not listed under California Proposition 65**

### Canada Regulations

#### 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

<b>Methyl acetate</b>	<b>79-20-9</b>
	1 %
<b>Acetone</b>	<b>67-64-1</b>
	1 %
<b>Cyclohexane</b>	<b>110-82-7</b>
	1 %

### Component Analysis - Inventory

#### Methyl acetate (79-20-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

#### 1,1-Difluoroethane (75-37-6)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Acetone (67-64-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Cyclohexane (110-82-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Dimethyl ether (115-10-6)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Propane (74-98-6)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

**Section 16 - OTHER INFORMATION**

**HMIS Rating**

Health: 2 Fire: 4 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**Summary of Changes**

Updated SDS: 1/24/2017

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act;



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CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

### Other Information

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.