



# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 05/09/2014

Version 1.2

## SECTION 1. Identification

### Product identifier

Product number	EX0278
Product name	Ethyl Alcohol, Denatured Anhydrous For Gas Chromatography and Residue Analysis OmniSolv®

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

Identified uses	Reagent for analysis
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### Details of the supplier of the safety data sheet

Company	EMD Millipore Corporation   290 Concord Road, Billerica, MA 01821, United States of America   General Inquiries: +1-978-715-4321   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
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Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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## SECTION 2. Hazards identification

### GHS Classification

Flammable liquid, Category 2, H225  
Specific target organ systemic toxicity - single exposure, Category 2, Eyes, H371  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS-Labeling

#### Hazard pictograms



Signal Word  
Danger

#### Hazard Statements

H225 Highly flammable liquid and vapor.  
H371 May cause damage to organs (Eyes).

#### Precautionary Statements

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P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/ physician.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

## OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

## Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature                      Solvent mixture

### Hazardous ingredients

*Chemical Name (Concentration)*

CAS-No.

*ethanol (>= 90 % - <= 100 % )*

64-17-5

Exact percentages are being withheld as a trade secret.

*methanol (>= 1 % - < 5 % )*

67-56-1

Exact percentages are being withheld as a trade secret.

*ethyl acetate (>= 1 % - < 5 % )*

141-78-6

Exact percentages are being withheld as a trade secret.

*4-methylpentan-2-one (>= 1 % - < 5 % )*

108-10-1

Exact percentages are being withheld as a trade secret.

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## SECTION 4. First aid measures

### Description of first-aid measures

*Inhalation*

After inhalation: fresh air. Consult a physician.

*Skin contact*

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a physician.

*Eye contact*

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

*Ingestion*

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

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### Most important symptoms and effects, both acute and delayed

irritant effects, respiratory paralysis, Dizziness, narcosis, inebriation, euphoria, Nausea, Vomiting, Drowsiness, agitation, spasms, blindness, Headache, Coma, Impairment of vision

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

Mention methanol.

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## SECTION 5. Fire-fighting measures

### Extinguishing media

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at ambient temperatures.

Pay attention to flashback.

Development of hazardous combustion gases or vapors possible in the event of fire.

### Advice for firefighters

*Special protective equipment for fire-fighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

*Further information*

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### Environmental precautions

Do not let product enter drains. Risk of explosion.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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**SECTION 7. Handling and storage**

**Precautions for safe handling**

Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

*Advice on protection against fire and explosion*

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Store at room temperature.

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**SECTION 8. Exposure controls/personal protection**

**Exposure limit(s)**

*Ingredients*

Basis	Value	Threshold limits	Remarks
<i>ethanol 64-17-5</i>			
ACGIH	Short Term Exposure Limit (STEL):	1,000 ppm	
NIOSH/GUIDE	Recommended exposure limit (REL):	1,000 ppm 1,900 mg/m <sup>3</sup>	
OSHA_TRANS	PEL:	1,000 ppm 1,900 mg/m <sup>3</sup>	
Z1A	Time Weighted Average (TWA):	1,000 ppm 1,900 mg/m <sup>3</sup>	

*methanol 67-56-1*

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ACGIH	Time Weighted Average (TWA):	200 ppm	
	Short Term Exposure Limit (STEL):	250 ppm	
	Skin designation:		Can be absorbed through the skin.
NIOSH/GUIDE	Recommended exposure limit (REL):	200 ppm 260 mg/m³	
	Skin designation:		Can be absorbed through the skin.
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m³	
OSHA_TRANS	PEL:	200 ppm 260 mg/m³	
Z1A	Time Weighted Average (TWA):	200 ppm 260 mg/m³	
	Skin designation (Final Rule Limit applies):		Can be absorbed through the skin.
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m³	

*ethyl acetate 141-78-6*

ACGIH	Time Weighted Average (TWA):	400 ppm	
NIOSH/GUIDE	Recommended exposure limit (REL):	400 ppm 1,400 mg/m³	
OSHA_TRANS	PEL:	400 ppm 1,400 mg/m³	
Z1A	Time Weighted Average (TWA):	400 ppm 1,400 mg/m³	

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

ACGIH	Time Weighted Average (TWA):	20 ppm	
	Short Term Exposure Limit (STEL):	75 ppm	
NIOSH/GUIDE	Recommended exposure limit (REL):	50 ppm 205 mg/m³	
	Short Term Exposure Limit (STEL):	75 ppm 300 mg/m³	
OSHA_TRANS	PEL:	100 ppm 410 mg/m³	
Z1A	Time Weighted Average (TWA):	50 ppm 205 mg/m³	
	Short Term Exposure Limit (STEL):	75 ppm 300 mg/m³	

**Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

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## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### *Hygiene measures*

Change contaminated clothing. Application of skin- protective barrier cream recommended.  
Wash hands after working with substance.

### *Eye/face protection*

Safety glasses

### *Hand protection*

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 necessary.

### *Other protective equipment:*

Flame retardant antistatic protective clothing

### *Respiratory protection*

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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## SECTION 9. Physical and chemical properties

Physical state	liquid
Color	colorless
Odor	No strong odor known.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	52 °F (11 °C)
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.

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Relative vapor density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

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### SECTION 10. Stability and reactivity

#### Reactivity

Vapors may form explosive mixture with air.

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

hydrogen peroxide, perchlorates, perchloric acid, Nitric acid, mercury(II) nitrate, permanganic acid, Nitriles, peroxi compounds, Oxidizing agents, nitrosyl compounds, Peroxides, sodium, Potassium, halogen oxides, calcium hypochlorite, nitrogen dioxide, metallic oxides, uranium hexafluoride, iodides, Chlorine, Alkali metals, Alkaline earth metals, alkali oxides, Ethylene oxide, salts of oxyhalogenic acids, chromium(VI) oxide, nitrogen oxides, nonmetallic oxides, chromosulfuric acid, chlorates, hydrides, zinc diethyl, halogens, magnesium, acid halides, Acid anhydrides, Reducing agents, acids

silver, with, Nitric acid

silver compounds, with, Ammonia

potassium permanganate, with, conc. sulfuric acid

Risk of ignition or formation of inflammable gases or vapors with:

halogen-halogen compounds, chromyl chloride, Fluorine, Oxides of phosphorus, platinum

Nitric acid, with, potassium permanganate

#### Conditions to avoid

Warming.

#### Incompatible materials

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various plastics, magnesium, rubber, zinc alloys

### Hazardous decomposition products

no information available

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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Eye contact, Skin contact

#### *Target Organs*

Respiratory system  
Central nervous system  
Eyes  
Skin  
Liver  
Blood  
reproductive system  
gastrointestinal tract  
Kidneys

#### *Acute oral toxicity*

Acute toxicity estimate: > 2,000 mg/kg  
Calculation method

absorption

Symptoms: Nausea, Vomiting

#### *Acute inhalation toxicity*

Acute toxicity estimate: > 20 mg/l; 4 h  
Calculation method

absorption

Symptoms: Irritation symptoms in the respiratory tract.

#### *Acute dermal toxicity*

Acute toxicity estimate : > 2,000 mg/kg  
Calculation method

absorption

#### *Skin irritation*

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

#### *Eye irritation*

Irritations of mucous membranes

#### *Carcinogenicity*

Carcinogen classifications of IARC, NTP, California proposition 65 for Ethanol CAS 64-17-5 apply to beverage use only. This product is NOT intended for this use.



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### *Specific target organ systemic toxicity - single exposure*

Target Organs: Eyes

Mixture causes damage to organs.

### *Specific target organ systemic toxicity - repeated exposure*

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## **Carcinogenicity**

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans. 4-methylpentan-2-one 108-10-1

## **Further information**

Systemic effects:

Headache, Dizziness, Drowsiness, narcosis, agitation, spasms, inebriation, euphoria, drop in blood pressure, acidosis, Impairment of vision, blindness, respiratory paralysis, Coma

Symptoms may be delayed.

Damage to:

Liver, Kidney, Cardiac, Irreversible damage of the optical nerve.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## **Ingredients**

### *ethanol*

#### *Acute oral toxicity*

LD50 rat: 6,200 mg/kg (IUCLID)

#### *Acute inhalation toxicity*

LC50 rat: 95.6 mg/l; 4 h (RTECS)

#### *Skin irritation*

rabbit

Result: No irritation

OECD Test Guideline 404

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## *Sensitization*

Sensitization test (Magnusson and Kligman):

Result: negative

(IUCLID)

## *Germ cell mutagenicity*

### *Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

(National Toxicology Program)

## *methanol*

### *Acute oral toxicity*

LDLO human: 143 mg/kg (RTECS)

LD50 rat: 5,628 mg/kg (IUCLID)

### *Acute inhalation toxicity*

LC50 rat: 85.26 mg/l; 4 h (IUCLID)

### *Acute dermal toxicity*

LD50 rabbit: ca. 17,100 mg/kg (External MSDS)

## *Sensitization*

Sensitization test: guinea pig

Result: negative

(IUCLID)

## *Germ cell mutagenicity*

### *Genotoxicity in vivo*

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(IUCLID)

### *Genotoxicity in vitro*

Ames test

Result: negative

(IUCLID)

## *ethyl acetate*

### *Acute oral toxicity*

LD50 rat: 5,620 mg/kg (RTECS)

### *Acute inhalation toxicity*

LC50 rat: 5.86 mg/l; 8 h (Lit.)

### *Acute dermal toxicity*

LD50 rabbit: > 18,000 mg/kg (External MSDS)

## *Skin irritation*

rabbit

Result: No skin irritation

(IUCLID)

## *Eye irritation*

rabbit

Result: slight irritation

OECD Test Guideline 405

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### *Sensitization*

Maximization Test (GPMT) guinea pig

Result: negative

Method: OECD Test Guideline 406

### *Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

(National Toxicology Program)

### *4-methylpentan-2-one*

*Acute oral toxicity*

LD50 rat: 2,080 mg/kg (RTECS)

*Acute inhalation toxicity*

LC50 rat: 8.3 - 16.6 mg/l; 4 h (External MSDS)

*Acute dermal toxicity*

LD50 rabbit: > 16,000 mg/kg (IUCLID)

### *Sensitization*

Sensitization test (Magnusson and Kligman):

Result: negative

Method: OECD Test Guideline 406

### *Germ cell mutagenicity*

*Genotoxicity in vivo*

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(IUCLID)

*Genotoxicity in vitro*

Ames test

Result: negative

(IUCLID)

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## SECTION 12. Ecological information

### **Ecotoxicity**

No information available.

### **Persistence and degradability**

No information available.

### **Bioaccumulative potential**

No information available.

### **Mobility in soil**

No information available.

### **Ingredients**

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## *ethanol*

### *Toxicity to fish*

LC50 *Leuciscus idus* (Golden orfe): 8,140 mg/l; 48 h (IUCLID)

### *Toxicity to daphnia and other aquatic invertebrates*

EC5 *E.sulcatum*: 65 mg/l; 72 h (Lit.)

EC50 *Daphnia magna* (Water flea): 9,268 - 14,221 mg/l; 48 h (IUCLID)

### *Toxicity to algae*

IC5 *Scenedesmus quadricauda* (Green algae): 5,000 mg/l; 7 d (Lit.)

### *Toxicity to bacteria*

EC5 *Pseudomonas putida*: 6,500 mg/l; 16 h (IUCLID)

### *Biodegradability*

94 %

OECD Test Guideline 301E

Readily biodegradable.

### *Biochemical Oxygen Demand (BOD)*

930 - 1,670 mg/g (5 d)

(Lit.)

### *Theoretical oxygen demand (ThOD)*

2,100 mg/g

(Lit.)

### *Ratio COD/ThBOD*

90 %

(Lit.)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## *methanol*

### *Toxicity to fish*

LC50 *Lepomis macrochirus* (Bluegill sunfish): 15,400 mg/l; 96 h (in soft water) (ECOTOX Database)

### *Toxicity to daphnia and other aquatic invertebrates*

EC5 *E.sulcatum*: > 10,000 mg/l; 72 h (Lit.)

EC50 *Daphnia magna* (Water flea): > 10,000 mg/l; 48 h (IUCLID)

### *Toxicity to algae*

EC50 *Pseudokirchneriella subcapitata* (green algae): ca. 22,000 mg/l; 96 h (External MSDS)

IC5 *Scenedesmus quadricauda* (Green algae): 8,000 mg/l; 8 d (IUCLID)

### *Toxicity to bacteria*

EC5 *Pseudomonas fluorescens*: 6,600 mg/l; 16 h (IUCLID)

### *Toxicity to fish (Chronic toxicity)*

NOEC *Oryzias latipes* (Orange-red killifish): 7,900 mg/l; 200 h (External MSDS)

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### *Biodegradability*

99 %; 30 d  
OECD Test Guideline 301D  
Readily biodegradable.

### *Biochemical Oxygen Demand (BOD)*

600 - 1,120 mg/g (5 d)  
(IUCLID)

### *Chemical Oxygen Demand (COD)*

1,420 mg/g  
(IUCLID)

### *Theoretical oxygen demand (ThOD)*

1,500 mg/g  
(Lit.)

### *Ratio BOD/ThBOD*

BOD5 76 %  
Closed Bottle test

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### *Stability in water*

2.2 yr  
reaction with hydroxyl radicals (IUCLID)

## *ethyl acetate*

### *Toxicity to fish*

LC50 Pimephales promelas (fathead minnow): 230 mg/l; 96 h (IUCLID)

### *Toxicity to daphnia and other aquatic invertebrates*

EC50 Daphnia magna (Water flea): 717 mg/l; 48 h (IUCLID)

### *Toxicity to algae*

IC50 Desmodesmus subspicatus (green algae): 3,300 mg/l; 48 h (IUCLID)

### *Toxicity to bacteria*

EC10 Pseudomonas putida: 2,900 mg/l; 16 h (IUCLID)

### *Biodegradability*

100 %; 28 d  
OECD Test Guideline 301D  
Readily biodegradable.

### *Theoretical oxygen demand (ThOD)*

1,820 mg/g  
(Lit.)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## *4-methylpentan-2-one*

### *Toxicity to fish*

LC50 Pimephales promelas (fathead minnow): 505 - 540 mg/l; 96 h (IUCLID)

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### *Toxicity to daphnia and other aquatic invertebrates*

EC5 *E. sulcatum*: 447 mg/l; 72 h (maximum permissible toxic concentration) (Lit.)

EC50 *Daphnia magna* (Water flea): 170 mg/l; 48 h (IUCLID)

### *Toxicity to algae*

IC50 *Scenedesmus quadricauda* (Green algae): 725 mg/l; 7 d (maximum permissible toxic concentration) (Lit.)

IC50 *Pseudokirchneriella subcapitata* (green algae): 400 mg/l; 96 h (IUCLID)

### *Toxicity to bacteria*

EC50 *Photobacterium phosphoreum*: 80 mg/l; 5 min (maximum permissible toxic concentration) (Lit.)

EC5 *Pseudomonas putida*: 275 mg/l; 16 h (maximum permissible toxic concentration) (Lit.)

### *Biodegradability*

99 %; 7 d

OECD Test Guideline 301E

Readily biodegradable.

### *Theoretical oxygen demand (ThOD)*

2,720 mg/g

(Lit.)

### *Ratio COD/ThBOD*

79 %

(Lit.)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## SECTION 14. Transport information

### Land transport (DOT)

UN number	UN 1170
Proper shipping name	ETHANOL
Class	3
Packing group	II
Environmentally hazardous	--

### Air transport (IATA)

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UN number UN 1170  
Proper shipping name ETHANOL  
Class 3  
Packing group II  
Environmentally hazardous --  
Special precautions for user no

Sea transport (IMDG)

UN number UN 1170  
Proper shipping name ETHANOL  
Class 3  
Packing group II  
Environmentally hazardous --  
Special precautions for user yes  
EmS F-E S-D

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SECTION 15. Regulatory information

United States of America

OSHA Hazards

Target organ effects  
Toxic by inhalation.  
Toxic by ingestion  
Toxic by skin absorption  
Eye irritant  
Respiratory irritant  
Flammable Liquid

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

Acute Health Hazard  
Chronic Health Hazard

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

<i>Ingredients</i>		
methanol	67-56-1	3.5 %
4-methylpentan-2-one	108-10-1	1 %

SARA 302

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

**DEA List I**

Not listed

**DEA List II**

Listed

*Ingredients*

4-methylpentan-2-one

108-10-1

**US State Regulations**

**Massachusetts Right To Know**

*Ingredients*

ethanol

methanol

ethyl acetate

4-methylpentan-2-one

**Pennsylvania Right To Know**

*Ingredients*

ethanol

methanol

ethyl acetate

4-methylpentan-2-one

**New Jersey Right To Know**

*Ingredients*

ethanol

methanol

ethyl acetate

4-methylpentan-2-one

**California Prop 65 Components**

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

*Ingredients*

methanol

**Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

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**SECTION 16. Other information**



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### Training advice

Provide adequate information, instruction and training for operators.

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapor.
H371	May cause damage to organs.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Revision Date 05/09/2014

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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