



SAFETY DATA SHEET

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

Revision Date 05/09/2014

Version 1. 1

SECTION 1. Identification

Product identifier

Product number	EX0285
Product name	Ethyl Alcohol, Denatured Anhydrous

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

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

SAFETY DATA SHEET

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

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.

SECTION 3. Composition/information on ingredients

Chemical nature Solvent mixture

Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

ethanol ($\geq 90\%$ - $\leq 100\%$)

64-17-5

Exact percentages are being withheld as a trade secret.

methanol ($\geq 1\%$ - $< 5\%$)

67-56-1

Exact percentages are being withheld as a trade secret.

ethyl acetate ($\geq 1\%$ - $< 5\%$)

141-78-6

Exact percentages are being withheld as a trade secret.

4-methylpentan-2-one ($\geq 1\%$ - $< 5\%$)

108-10-1

Exact percentages are being withheld as a trade secret.

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.

Most important symptoms and effects, both acute and delayed

SAFETY DATA SHEET

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

Product number

EX0285

Version 1. 1

Product name

Ethyl Alcohol, Denatured Anhydrous

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.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO₂), 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.

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.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

SAFETY DATA SHEET

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

Product number

EX0285

Version 1. 1

Product name

Ethyl Alcohol, Denatured Anhydrous

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.

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 ³	
OSHA_TRANS	PEL:	1,000 ppm 1,900 mg/m ³	
Z1A	Time Weighted Average (TWA):	1,000 ppm 1,900 mg/m ³	
<i>methanol 67-56-1</i>			
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/m ³	
	Skin designation:		Can be absorbed through the skin.
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m ³	
OSHA_TRANS	PEL:	200 ppm 260 mg/m ³	
Z1A	Time Weighted Average (TWA):	200 ppm 260 mg/m ³	
	Skin designation (Final Rule Limit applies):		Can be absorbed through the skin.
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m ³	

ethyl acetate 141-78-6

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

Product number	EX0285	Version 1. 1
Product name	Ethyl Alcohol, Denatured Anhydrous	

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.

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.

SAFETY DATA SHEET

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

Product number
Product name

EX0285
Ethyl Alcohol, Denatured Anhydrous

Version 1.1

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.
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

SAFETY DATA SHEET

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

Product number

EX0285

Version 1. 1

Product name

Ethyl Alcohol, Denatured Anhydrous

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

various plastics, magnesium, rubber, zinc alloys

Hazardous decomposition products

no information available

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

SAFETY DATA SHEET

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

Product number

EX0285

Version 1. 1

Product name

Ethyl Alcohol, Denatured Anhydrous

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.

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

SAFETY DATA SHEET

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

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

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

SAFETY DATA SHEET

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

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

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

SAFETY DATA SHEET

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1.1

Germ cell mutagenicity

Genotoxicity in vivo

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(IUCLID)

Genotoxicity in vitro

Ames test

Result: negative

(IUCLID)

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

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.)

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

Substance does not meets 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

EC50 *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)

IC50 *Scenedesmus quadricauda* (Green algae): 8,000 mg/l; 8 d (IUCLID)

Toxicity to bacteria

EC50 *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)

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 meets 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)

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

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)

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

IC5 *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.

SAFETY DATA SHEET

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

Product number EX0285
Product name Ethyl Alcohol, Denatured Anhydrous

Version 1. 1

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.

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)

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

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

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

Product number	EX0285	Version 1. 1
Product name	Ethyl Alcohol, Denatured Anhydrous	

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.

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

<i>Ingredients</i>	
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

SAFETY DATA SHEET

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

Product number

EX0285

Version 1. 1

Product name

Ethyl Alcohol, Denatured Anhydrous

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.

SECTION 16. Other information

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.

Revision Date 05/09/2014

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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