

**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Material Name**

Emerald Thinner

**Product Code**

Not available.

**Synonyms**

Industrial solvent.

**Product Use**

Industrial solvent. If this solvent is used in combination with other products, refer to the Safety Data Sheets for those products.

**Restrictions on Use**

This product is not for sale or use in the states of California and Utah.

**Manufacturer**

Emerald Services, Inc.  
1825 Alexander Ave.  
Tacoma, WA 98421  
U.S.A.

Phone: 206-832-3225

Emergency Phone #: (800) 424-9300 (CHEMTREC - #7619)

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February 13, 2020

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October 17, 2016

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July 24, 2006

**Section 2 - HAZARDS IDENTIFICATION**

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

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Acute Toxicity - Inhalation - Vapor - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1A

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 1 (Central Nervous System, kidneys, liver, respiratory system)

Specific Target Organ Toxicity - Single Exposure - Category 2 (Nervous System)

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (Central Nervous System,, kidneys, Nervous System, respiratory system, digestive system, liver)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (Skin, testes)

# Safety Data Sheet

Material Name: Emerald Thinner

SDS ID: 88010

## GHS Label Elements

### Symbol(s)



### Signal Word

Danger

### Hazard Statement(s)

- Highly flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- Harmful if inhaled.
- Causes skin irritation and serious eye irritation.
- May cause genetic defects and cancer.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs.
- May cause respiratory irritation and drowsiness or dizziness.
- Causes damage to organs through prolonged or repeated exposure.

### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

#### Response

In case of fire: Use carbon dioxide, regular foam, dry chemical, water spray, or water fog. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep 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 ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

#### Storage

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

#### Disposal

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

#### Other Hazards

Repeated exposure may cause skin dryness or cracking.

# Safety Data Sheet

Material Name: Emerald Thinner

SDS ID: 88010

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
108-88-3	Toluene	20-30
78-93-3	Methyl ethyl ketone	15-25
67-64-1	Acetone	15-25
1330-20-7	Xylenes (o-, m-, p- isomers)	5-10
123-86-4	n-Butyl acetate	5-10
64-17-5	Ethyl alcohol	3-5
8052-41-3	Stoddard solvent	0-10

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Eyes

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.

### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

### Most Important Symptoms/Effects

#### Acute

May be fatal if swallowed and enters airways. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

#### Delayed

May cause genetic defects. May cause cancer. Causes damage to central nervous system through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically and supportively.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

#### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

# Safety Data Sheet

Material Name: Emerald Thinner

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## Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Runoff to sewer may cause a fire or explosion hazard. Containers may rupture or explode. Empty product containers may contain product residue.

## Hazardous Combustion Products

Carbon monoxide and carbon dioxide

## 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. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

## Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

### Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources if safe to do so. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. A vapor suppressing foam may be used to reduce vapors. Keep unnecessary people away, isolate hazard area and deny entry. Ventilate the area. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

### Environmental Precautions

Avoid release to the environment.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Protect against physical damage. Store in a cool, well-ventilated area away from ignition sources. Store in a dry place. Keep from direct sunlight. Empty containers may contain product residue.

### Incompatible Materials

Strong oxidizing agents.

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Material Name: Emerald Thinner

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<b>Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Component Exposure Limits**

<b>Toluene</b>	<b>108-88-3</b>
ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA ; 375 mg/m3 TWA; 150 ppm STEL ; 560 mg/m3 STEL; 500 ppm IDLH
OSHA (US):	200 ppm TWA; 300 ppm Ceiling
<b>Methyl ethyl ketone</b>	<b>78-93-3</b>
ACGIH:	200 ppm TWA; 300 ppm STEL
NIOSH:	200 ppm TWA ; 590 mg/m3 TWA; 300 ppm STEL ; 885 mg/m3 STEL 3000 ppm IDLH
OSHA (US):	200 ppm TWA ; 590 mg/m3 TWA
<b>Acetone</b>	<b>67-64-1</b>
ACGIH:	250 ppm TWA; 500 ppm STEL
NIOSH:	250 ppm TWA ; 590 mg/m3 TWA; 2500 ppm IDLH (10% LEL )
OSHA (US):	1000 ppm TWA ; 2400 mg/m3 TWA
<b>Xylenes (o-, m-, p-isomers)</b>	<b>1330-20-7</b>
ACGIH:	100 ppm TWA; 150 ppm STEL
OSHA (US):	100 ppm TWA ; 435 mg/m3 TWA
<b>n-Butyl acetate</b>	<b>123-86-4</b>
ACGIH:	50 ppm TWA; 150 ppm STEL
NIOSH:	150 ppm TWA ; 710 mg/m3 TWA; 200 ppm STEL ; 950 mg/m3 STEL 1700 ppm IDLH (10% LEL )
OSHA (US):	150 ppm TWA ; 710 mg/m3 TWA
<b>Ethyl alcohol</b>	<b>64-17-5</b>
ACGIH:	1000 ppm STEL
NIOSH:	1000 ppm TWA ; 1900 mg/m3 TWA; 3300 ppm IDLH (10% LEL )

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OSHA (US):	1000 ppm TWA ; 1900 mg/m <sup>3</sup> TWA
Stoddard solvent	8052-41-3
ACGIH:	100 ppm TWA
NIOSH:	350 mg/m <sup>3</sup> TWA; 1800 mg/m <sup>3</sup> Ceiling 15 min; 20000 mg/m <sup>3</sup> IDLH
OSHA (US):	500 ppm TWA ; 2900 mg/m <sup>3</sup> TWA

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

**Toluene (108-88-3)**

0.02 mg/l Medium: blood Time: prior to last shift of workweek Parameter: Toluene ; 0.03 mg/l Medium: urine Time: end of shift Parameter: Toluene ; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background )

**Methyl ethyl ketone (78-93-3)**

2 mg/l Medium: urine Time: end of shift Parameter: MEK (nonspecific )

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

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

**Xylenes (o-, m-, p- isomers) (1330-20-7)**

1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

**Engineering Controls**

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

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

**Eye/face protection**

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

**Skin Protection/Glove Recommendations**

Where skin contact is likely, wear chemical impervious gloves. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

**Respiratory Protection**

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

**Protective Materials**

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses. Gloves. Lab coat or apron.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear liquid	<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic	<b>Color</b>	Not available
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available

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<b>Melting Point</b>	-139°F (-95 °C)	<b>Boiling Point</b>	131 °F (100° C)
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	-139°F (-95 °C)
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	-4 °F TCC (100° C)
<b>Lower Explosive Limit</b>	1.1 %	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	7.1 %	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	0.81 - 0.97
<b>Water Solubility</b>	(Slight )	<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
<b>Volatility</b>	100 %	<b>Molecular Weight</b>	Not available

## Section 10 - STABILITY AND REACTIVITY

### Chemical Stability

Stable under normal conditions of use.

### Possibility of Hazardous Reactions

Will not occur.

### Conditions to Avoid

Incompatible materials, Ignition sources

### Incompatible Materials

Strong oxidizing agents

### Hazardous decomposition products

Carbon monoxide and carbon dioxide

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

Harmful if inhaled. May cause drowsiness or dizziness.

#### Skin Contact

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

#### Eye Contact

Causes serious eye irritation.

#### Ingestion

May be fatal if swallowed and enters airways.

### 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:

#### **Toluene (108-88-3)**

Oral LD50 Rat 2600 mg/kg; Dermal LD50 Rabbit 12000 mg/kg; Inhalation LC50 Rat 12.5 mg/L 4 h

#### **Methyl ethyl ketone (78-93-3)**

Oral LD50 Rat 2483 mg/kg; Dermal LD50 Rabbit 5000 mg/kg; Inhalation LC50 Rat 11700 ppm 4 h

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**Material Name: Emerald Thinner**

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**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

**Xylenes (o-, m-, p- isomers) (1330-20-7)**

Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit >4350 mg/kg; Inhalation LC50 Rat 29.08 mg/L 4 h

**n-Butyl acetate (123-86-4)**

Oral LD50 Rat 10768 mg/kg; Dermal LD50 Rabbit >17600 mg/kg; Inhalation LC50 Rat 390 ppm 4 h

**Ethyl alcohol (64-17-5)**

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

**Product Toxicity Data**

**Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Inhalation - Vapor	11.279 mg/L
Oral	> 2000 mg/kg

**Immediate Effects**

May be fatal if swallowed and enters airways. Harmful if inhaled. Causes skin and eye irritation. May cause drowsiness or dizziness.

**Delayed Effects**

May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to central nervous system through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.

**Irritation/Corrosivity Data**

Causes skin and eye irritation. Repeated exposure may cause skin dryness or cracking.

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

No information available for the product.

**Component Carcinogenicity**

<b>Toluene</b>	<b>108-88-3</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Monograph 47 [1989] (Group 3 (not classifiable))
<b>Acetone</b>	<b>67-64-1</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
<b>Xylenes (o-, m-, p- isomers)</b>	<b>1330-20-7</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Monograph 47 [1989] (Group 3 (not classifiable))
<b>Ethyl alcohol</b>	<b>64-17-5</b>
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans



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IARC:	Monograph 100E [2012] (in alcoholic beverages ); Monograph 96 [2010] (in alcoholic beverages ) (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (consumption ) (related to Alcoholic beverages)
DFG:	Category 5 (low carcinogenic potency )
OSHA:	Present

**Germ Cell Mutagenicity**

May cause genetic defects.

**Tumorigenic Data**

No information available for the product.

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

Respiratory system

**Specific Target Organ Toxicity - Repeated Exposure**

Central Nervous System

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Medical Conditions Aggravated by Exposure**

No data available.

**Section 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<b>Toluene</b>	<b>108-88-3</b>
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through ] (1 day old ); LC50 96 h Pimephales promelas 12.6 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static ]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static ]; LC50 96 h Oryzias latipes 54 mg/L [static ]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static ]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static ]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static ] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static ] EPA ; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
<b>Methyl ethyl ketone</b>	<b>78-93-3</b>
Fish:	LC50 96 h Pimephales promelas 3130 - 3320 mg/L [flow-through ]

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Invertebrate:	EC50 48 h Daphnia magna >520 mg/L IUCLID ; EC50 48 h Daphnia magna 5091 mg/L IUCLID ; EC50 48 h Daphnia magna 4025 - 6440 mg/L [Static ] EPA
<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>Xylenes (o-, m-, p-isomers)</b>	<b>1330-20-7</b>
Fish:	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L; LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 19 mg/L; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static ]; LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static ]; LC50 96 h Cyprinus carpio 780 mg/L [semi-static ]; LC50 96 h Cyprinus carpio >780 mg/L; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static ]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 11 mg/L IUCLID (related to Aromatic hydrocarbons, C7-12, C8-rich)
Invertebrate:	EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L
<b>n-Butyl acetate</b>	<b>123-86-4</b>
Fish:	LC50 96 h Lepomis macrochirus 100 mg/L [static ]; LC50 96 h Pimephales promelas 17 - 19 mg/L [flow-through ]
Algae:	EC50 72 h Desmodesmus subspicatus 674.7 mg/L IUCLID
<b>Ethyl alcohol</b>	<b>64-17-5</b>
Fish:	LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static ]; LC50 96 h Pimephales promelas >100 mg/L [static ]; LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through ]
Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static ] EPA

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

# Safety Data Sheet

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## Other Toxicity

No information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Emerald regarding proper recycling or disposal.

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

**Shipping Name:** FLAMMABLE LIQUIDS, N.O.S. , ( Contains: Acetone, , Methyl ethyl ketone )

**Hazard Class:** 3

**UN/NA #:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### IATA Information:

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Contains: Acetone, , Methyl ethyl ketone )

**Hazard Class:** 3

**UN#:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### IMDG Information:

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Contains: Acetone, , Methyl ethyl ketone )

**Hazard Class:** 3

**UN#:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### TDG Information:

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Contains: Acetone, , Methyl ethyl ketone )

**Hazard Class:** 3

**UN#:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### 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>Toluene</b>	<b>108-88-3</b>
IBC Code:	Category Y
<b>Methyl ethyl ketone</b>	<b>78-93-3</b>
IBC Code:	Category Z

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<b>Xylenes (o-, m-, p- isomers)</b>	<b>1330-20-7</b>
IBC Code:	Category Y
<b>n-Butyl acetate</b>	<b>123-86-4</b>
IBC Code:	Category Y (related to Butyl acetates)

## 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>Toluene</b>	<b>108-88-3</b>
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
<b>Methyl ethyl ketone</b>	<b>78-93-3</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Acetone</b>	<b>67-64-1</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Xylenes (o-, m-, p- isomers)</b>	<b>1330-20-7</b>
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>n-Butyl acetate</b>	<b>123-86-4</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

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

Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard; Germ Cell Mutagenicity

### 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>Toluene</b>	<b>108-88-3</b>	Yes	Yes	Yes	Yes	Yes
<b>Methyl ethyl ketone</b>	<b>78-93-3</b>	Yes	Yes	Yes	Yes	Yes
<b>Acetone</b>	<b>67-64-1</b>	Yes	Yes	Yes	Yes	Yes

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Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
n-Butyl acetate	123-86-4	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes	Yes	Yes

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This product is not for sale or use in the State of California.

**Component Analysis - Inventory**

**Toluene (108-88-3)**

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

**Methyl ethyl ketone (78-93-3)**

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

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

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

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**Xylenes (o-, m-, p- isomers) (1330-20-7)**

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

**n-Butyl acetate (123-86-4)**

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

**Ethyl alcohol (64-17-5)**

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

**Stoddard solvent (8052-41-3)**

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

**Section 16 - OTHER INFORMATION**

**NFPA Ratings**

Health: 2 Fire: 3 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

Regulatory review and update. Update to Section 2.

# Safety Data Sheet

Material Name: Emerald Thinner

SDS ID: 88010

## 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; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); 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; F - Background (for Venezuela Biological Exposure Indices); 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; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); 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; Sc - Semi-quantitative; 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); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## Other Information

### Disclaimer:

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