



# SAFETY DATA SHEET

## Proprietary Solvent III-4, 200 PROOF Solvent PM 509

### 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** Ethanol  
**Synonyms:** Denatured Alcohol; Denatured Ethanol  
**Other means of identification:** CAS No. 64-17-5  
EINECS No. 200-578-6

#### Recommended use of the chemical and restrictions on use:

#### Supplier Details:

**Greenfield Global USA, Inc.**  
58 Vale Road, Brookfield,  
CT 06804, USA.  
Tel: 203.740.3471  
Fax: 203.740.3481  
CCN17213

**Greenfield Global USA, Inc.**  
1101 Isaac Shelby Drive, Shelbyville,  
KY 40065, USA.  
Tel: 502.232.7600  
Fax: 502.633.6100  
CCN17213

**Emergency Contact:** CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview:

This material is HAZARDOUS by OSHA Hazard Communication definition. Flammable Liquid. Material can burn with little or no visible flame. May be irritating to the eyes, skin, and respiratory system. May cause central nervous system depression.

#### OSHA Hazards:

Flammable liquid, Target Organ Effect, Irritant, Toxic by ingestion.

#### Target Organs:

Heart, Liver, Nerves



**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**  
**NFPA** **+1.703.527.3887 (INT)**



**GHS label elements, including precautionary statements**



**Signal Word:**

DANGER!

**Hazard statement(s)**

H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.

**Precautionary statement(s)**

P501 Dispose of contents and container to an approved waste disposal plant.  
P240 Ground/bond container and receiving equipment.  
P337 + P313 If eye irritation persists: Get medical attention.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P243 Take precautionary measures against static discharge.  
P241 Use explosion-proof electrical, ventilating, and lighting equipment.

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P242	Use only non-sparking tools.	<b>+1.703.527.3887 (INT)</b>
P264	Wash hands thoroughly after handling.	
P280	Wear protective gloves and eye and face protection.	

**GHS Classification(s)**

Acute toxicity, Oral (Category 4)  
 Eye irritation (Category 2)  
 Flammable Liquids (Category 2)  
 Skin irritation (Category 2)  
 Specific target organ toxicity - single exposure (Category 3)

**Other hazards which do not result in classification:**

**Potential Health Effects:**

Organ	Description
Eyes	May cause irritation including stinging, tearing, and redness.
Ingestion	Ingestion may cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, coma and death.
Inhalation	High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur.
Skin	Prolonged or widespread contact may result in the absorption of potentially harmful amounts. Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur. Skin Contact: Prolonged or repeated contact may cause defatting and drying of the skin.
Chronic	Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Overexposure to methanol may cause eye damage and liver or kidney injury. Other Health Hazards: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. Medical Conditions Aggravated by Overexposure: Repeated exposure to ethanol may aggravate liver injury produced from other causes. Skin contact may aggravate dermatitis.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

<b>Chemical identity:</b>	Alcohol
<b>Common name / Synonym:</b>	Denatured Ethanol, Industrial Alcohol
<b>CAS number:</b>	64-17-5
<b>EINECS number:</b>	200-578-6
<b>ICSC number:</b>	0044
<b>RTECS #:</b>	KQ6300000
<b>UN #:</b>	UN1987
<b>EC #:</b>	603-002-00-5

% Volume	Material	CAS
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**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

3.7	Methyl Alcohol	<b>+1.703.527.3887 (INT)</b>
.96	Solvent Naphtha	64742-89-8
1.88	Methyl Isobutyl Ketone	108-10-1
91.82	Ethanol	64-17-5
1.64	Ethyl Acetate	141-78-6

## 4. FIRST AID MEASURES

### General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

### Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

### Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

### Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

### Note to Physician

Symptoms vary with alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05- 0.15 %. Approximately 25% of individuals show signs of intoxication at these levels. Above 0.15% the person is definitely under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Severe poisoning occurs when the blood is ethanol level is 0.3- 0.5%. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids.

## 5. FIRE FIGHTING MEASURES

### Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

### Special protective equipment and precautions for firefighters:



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Wear self-contained breathing apparatus and protective clothing to prevent contact with skin. **1.703.527.5987 (INT)**  
unopened containers cool by spraying with water.

**Unusual Fire and Explosion Hazards:**

- May produce a floating fire hazard.
- Static ignition hazard can result from handling and use.
- Vapors may settle in low or confined spaces.
- Vapors may travel to source of ignition and flash back.

Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

**Flammable Properties**

**Classification**

OSHA/NFPA Class IB Flammable Liquid.

**Flash point**

14 °C (58 °F) - closed cup

**Autoignition temperature**

363 °C (685.4 °F) - (Ethyl Alcohol)

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:**

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

**Methods and materials for containment and cleaning up:**

Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.

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**Conditions for safe storage, including any incompatibilities: +1.703.527.3887 (INT)**

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leaks/spills. Consult local fire codes for additional storage information.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

### Occupational Exposure Limits

Component	Source	Type	Value	Note
Ethyl Acetate	US (OSHA)	TWA	400 ppm	
Ethyl Acetate	US (ACGIH)	TWA	400 ppm	ACGIH Threshold Limit Value
Ethyl alcohol	US (OSHA)	TWA	1000 ppm / 1,900 mg/m <sup>3</sup>	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.
Methanol	US (OSHA)	TWA	200 ppm, 260 mg/m <sup>3</sup>	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.
Methanol	USA (ACGIH)	WA	200 ppm	ACGIH Threshold Limit Value
Methyl Isobutyl Ketone	US (OSHA)	TWA	100 ppm, 410 mg/m <sup>3</sup>	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
Methyl Isobutyl Ketone	US (ACGIH)	TWA	50 ppm	
Rubber Solvent (n-Hexane)	US (OSHA)	TWA	400 ppm, 1800 mg/m <sup>3</sup>	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.

### Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

### Individual protection measures, such as personal protective equipment:

#### Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

#### Skin and body protection:

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Choose body protection according to the amount and concentration of the dangerous substance. **203.527.3987 (INT)**

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.)</b>	Liquid. Colorless.
<b>Freezing point</b>	-114 °C (-173 °F)
<b>Initial boiling point and boiling range</b>	80 °C (176 °F)
<b>Flash point</b>	14 °C (58 °F) - closed cup
<b>Evaporation rate</b>	Specific data not available - expected to be rapid.
<b>Flammability (solid, gas)</b>	Flammable
<b>Upper / Lower flammability or explosive limits</b>	3.3%(V) / 19%(V)
<b>Vapor pressure</b>	44.6mmHg (5.94 kPa)
<b>Vapor Density</b>	1.6 (air =1)
<b>Solubility(ies)</b>	completely soluble
<b>Auto-ignition temperature</b>	363 °C (685.4 °F) - (Ethyl Alcohol)

## 10. STABILITY AND REACTIVITY

<b>Possibility of hazardous reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to avoid (e.g., static discharge, shock or vibration)</b>	Heat, flames, and sparks. Extreme temperatures and direct sunlight.
<b>Incompatible materials</b>	Strong acids, strong oxidizing agents
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

- Ethyl Alcohol 64-17-5

**Signs and Symptoms of Exposure**

Central nervous system depression, narcosis, damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Product Summary:**

Ethanol is not toxic by OSHA standards. Coingestion of sedative hypnotics or tranquilizers can increase the toxic affects of ethanol.

**Acute Toxicity:**





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LC50 (inhl)	Rat	20000ppm	<b>+1.703.527.3887 (INT)</b>
LC50 (Oral)	Rat	7060mg/Kg BWT	
LDLo (Oral)	Human	1400 mg/Kg BWT	

**Irritation:**

**Eyes (ETHANOL)**

Eye exposure to Ethanol generally causes transient pain, irritation, and reflex lid closure. A foreign-body sensation may persist for one to two days. Vapors produce transient stinging and tearing, but no apparent adverse effects. Transiently impaired preception of color may occur with acute ingestion or chronic alcoholism. Standard Draize eye test (rabbit) - Dose: 500 mg Reaction: Severe Dose: 500 mg/24 hrs Reaction: Mild

**Skin**

Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

**Carcinogenicity**

IARC: Not classifiable as a human carcinogen.  
ACGIH: Not classifiable as a human carcinogen.  
NTP: Not classifiable as a human carcinogen.  
OSHA: Not classifiable as a human carcinogen.

**Other Hazards**

Organ	Description
Eyes	Irritating to the eyes. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.
Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. Advanced stages can lead to respiratory failure, kidney failure, coma, and death.
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.
Skin	Mildly irritating to the skin. May cause dermatitis by de-fatting the skin from prolonged or repeated contact.
Chronic	Prolonged exposure can cause liver, kidney, and heart damage. Long term exposure can cause loss of appetite, weight loss, nervousness, memory loss, mental retardation.

- Methyl Alcohol 67-56-1

**Product Summary:**

Classification of teratogenicity or reproductive toxicity cannot be determined with available data for this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.





**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

**Acute Toxicity: +1.703.527.3887 (INT)**

LC50 (Inhl)	Rat	64,000 mg/Kg BWT	4 hours
LD50 (Oral)	Rat	5,628 mg/Kg BWT	
LD50 (Skin)	Rabbit	15,800 mg/Kg BWT	

**Irritation:**

**Eyes (METHANOL)**

Direct contact with the eyes produces a mild, reversible irritation, assuming treatment is initiated promptly. Methanol ingestion or inhalation can lead to visual disturbance that can proceed to blindness.

**Skin**

Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Other Hazards**

Organ	Description
Eyes	Irritating to the eyes.
Ingestion	Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	Toxic by inhalation. Vapor harmful. May be irritating to the respiratory tract.
Skin	Toxic in contact with skin. Irritating to skin.
Chronic	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects. Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.

- Ethyl Acetate 141-78-6

**Product Summary:**

Not known to be toxic to the reproductive system, teratogenic, or carcinogenic. Has demonstrated some mutagenic effects in animals.



**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

**Acute Toxicity:**

**+1.703.527.3887 (INT)**

LC50 (Inhalation)	Rat	22,627 ppm	4 hours
LD50 (Dermal)	Rabbit	20,000 mg/kg	
LD50 (Oral)	Rat	11,300 mg/kg	

**Irritation:**

**Eyes**

No data available.

**Skin**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Other Hazards**

Organ	Description
Eyes	Can cause serious eye irritation with common symptoms including redness, tearing, pain, and blurred vision.
Ingestion	Can be harmful if ingested leading to throat irritation, nausea, vomiting, and central nervous system effects.
Inhalation	High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects; and/or liver and kidney damage. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.
Skin	This product may cause irritation, redness, and/ or drying. This product is not likely to be absorbed through the skin in harmful amounts. In rare instances, repeated skin contact with ethyl acetate may cause sensitization.
Chronic	Prolonged or repeated inhalation may cause toxic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). In rare instances, repeated skin contact with ethyl acetate may cause sensitization. Prolonged or repeated exposure may have reproductive toxicity or mutagenic effects.



**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

• Methyl Isobutyl Ketone 108-10-1

**+1.703.527.3887 (INT)**

**Product Summary:**

Laboratory tests have shown teratogenic effects. No data available for the mutagenic or reproductive effects of the product. No data available to designate the product as causing specific target organ toxicity through single or repeated exposure. No data available to designate product as an aspiration hazard.

**Acute Toxicity:**

LC50 (Inhalation)	Rat	16.4 mg/m3	4 hours
LD50 (Dermal)	Rabbit	> 16,000 mg/kg	
LD50 (Oral)	Rat	2,080 mg/kg	

**Irritation:**

**Eyes (METHYL ISOBUTYL KETONE)**

Rabbit - Moderate eye irritation - 24 hours

**Skin**

Rabbit - skin irritation - 24 hours

**Teratogenicity (METHYL ISOBUTYL KETONE)**

Methyl Isobutyl Ketone is teratogenic. Fetal death and developmental abnormalities occurred in the babies of mice that inhaled Methyl isobutyl ketone.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Other Hazards**

Organ	Description
Eyes	Can be irritating to the eyes.
Ingestion	Can be harmful if ingested.
Inhalation	Can be harmful, causing respiratory tract irritation, if inhaled.
Skin	Can be harmful, causing irritation, if absorbed through the skin.

• Solvent Naptha 64742-89-8



**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

**Carcinogenicity**

**+1.703.527.3887 (INT)**

IARC: Not classifiable as a human carcinogen.

ACGIH: Not classifiable as a human carcinogen.

NTP: Not classifiable as a human carcinogen.

OSHA: Not classifiable as a human carcinogen.

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## 12. ECOLOGICAL INFORMATION

• Ethyl Alcohol 64-17-5

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**Ecotoxicity (aquatic and terrestrial, where available):**

**Acute Fish toxicity (ETHANOL)**

LC50 / 96 HOUR *Oncorhynchus mykiss* (rainbow trout) > 10,000 mg/l

LC50 / 96 HOUR *Pimephales promelas* (fathead minnow) > 13,400 mg/l

**Toxicity to aquatic plants (ETHANOL)**

Growth inhibition / 96 HOURS *Chlorella vulgaris* (Fresh water algae) 1,000 mg/l

**Toxicity to microorganisms (ETHANOL)**

Toxicity Threshold / *Pseudomonas putida* 6,500 mg/l

Summary: Inhibition of cell multiplication begins.

**Persistence and degradability:**

Biodegradation is expected.

**Bioaccumulative potential:**

Biaccumulation is unlikely

• Methyl Alcohol 67-56-1

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**Ecotoxicity (aquatic and terrestrial, where available):**

**Acute Fish Toxicity (METHANOL)**

LC50 / 96 hours *Lepomis macrochirus*: 15,400 mg/L / LC50 / 96 hours Fathead minnow: 29,400 mg/L

**Toxicity to Aquatic Plants (METHANOL)**

EC50 / 96 hours *Scenedesmus capricornutum*: 22,000 mg/L



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**Persistence and degradability: +1.703.527.3887 (INT)**

This material is expected to be readily biodegradable. There is evidence that it is degraded under anaerobic conditions.

**Bioaccumulative potential:**

Bioconcentration factor (BCF) of 0.2. This material is not expected to bioaccumulate.

**Other adverse effects:**

BOD: 600 mg/g - 1120 mg/g COD: 1420 mg/g

• Ethyl Acetate 141-78-6

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**Ecotoxicity (aquatic and terrestrial, where available):**

**Acute Fish Toxicity (ETHYL ACETATE)**

LC50 / 96 hours Fathead Minnow 230mg/L

**Persistence and degradability:**

Biodegradation is expected.

**Bioaccumulative potential:**

Biaccumulation is unlikely

• Methyl Isobutyl Ketone 108-10-1

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**Ecotoxicity (aquatic and terrestrial, where available):**

**Acute Toxicity to Fish (METHYL ISOBUTYL KETONE)**

LC50 / 48 hours Leuciscus idus melanotus- 480 mg/L

**Toxicity to Aquatic Plants (METHYL ISOBUTYL KETONE)**

EC50 / 48 hours Green algae- 2,000 mg/L

**Persistence and degradability:**

Biotic/ Aerobic

**Bioaccumulative potential:**

No data available

• Solvent Naptha 64742-89-8

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**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

**Persistence and degradability:**

**+1.703.527.3887 (INT)**

No data available

**Bioaccumulative potential:**

No data available

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### 13. DISPOSAL CONSIDERATIONS

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:**

Vapors may collect in empty containers. Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations.

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### 14. TRANSPORT INFORMATION

**Description of waste residues and information on their safe handling and methods of disposal:**

<b>UN number</b>	UN1987
<b>UN proper shipping name</b>	Alcohols, n.o.s. (ethanol, methanol)
<b>Transport hazard class(es)</b>	3
<b>Packing group (if applicable)</b>	II

**IMDG**

UN-Number: UN1987 Class: 3 Packing Group: II

EMS-No: F-E, S-D

Proper shipping name: Alcohols, n.o.s. (ethanol, methanol)

Marine pollutant: No

**IATA**

UN-Number: UN1987 Class: 3 Packing Group: II

Proper shipping name: Alcohols, n.o.s. (ethanol, methanol)

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### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations specific for the product in question:**

**OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant, Toxic by ingestion.

All ingredients are on the following inventories or are exempted from listing

<b>Country</b>	<b>Notification</b>
Australia	AICS
Canada	DSL
China	IECS



**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)**

European Union	EINECS	<b>+1.703.527.3887 (INT)</b>
Japan	ENCS/ISHL	
Korea	ECL	
New Zealand	NZIoC	
Philippines	PICCS	
United States of America	TSCA	

**SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302/304: Methanol CAS-No. 67-56-1 Revision Date 2007-07-01 Isobutyl methyl ketone CAS-No. 108-10-1 Revision Date 1993-04-24

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the reporting limits.

**SARA 311/312 Hazards**

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

**CERCLA**

Ethyl acetate CAS-No. 141-78-6, RQ: 5,000 lbs

Methanol CAS-No. 67-56-1. RQ: 5,000 lbs

Methyl isobutyl ketone CAS No. 108-10-1 RQ: 5000 lbs

**Massachusetts Right To Know Components**

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Ethyl acetate CAS-No. 141-78-6 Revision Date 2007-03-01

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

Methyl Isobutyl Ketone CAS-No. 108-10-1 Revision Date 1993-04-24

Solvent Naphtha CAS No. 64742-89-8

**Pennsylvania Right To Know Components**

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Ethyl Acetate CAS-No. 141-78-6





**PHARMCO**  
by Greenfield Global

**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)  
+1.703.527.3887 (INT)**

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

Methyl Isobutyl Ketone CAS-No. 108-10-1 Revision Date 1993-04-24

Solvent Naphtha CAS No. 64742-89-8

**New Jersey Right To Know Components**

Ethanol CAS-No.64-17-5 Revision Date 2007-03-01

Ethyl Acetate CAS-No. 141-78-6

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

Methyl Isobutyl Ketone CAS-No. 108-10-1 Revision Date 1993-04-24

Solvent Naphtha CAS No. 64742-89-8

**California Prop 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. METHANOL CAS-No. 67-56-1 Revision Date 2012-03-16

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**16. OTHER INFORMATION:  
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

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