

## 1. Identification

<b>Product identifier</b>	<b>S-10010 Solvent Blend</b>
<b>Other means of identification</b>	
<b>Product code</b>	0303709
<b>Recommended use</b>	Solvent
<b>Recommended restrictions</b>	None known.
<b>Manufacturer information</b>	Superior Oil Company, Inc. 1402 North Capitol Avenue, Suite #100 Indianapolis, IN 46202 US Information: (317) 781-4400 Emergency: (317) 781-4400

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Specific target organ toxicity, single exposure	Category 3 narcotic effects	
Specific target organ toxicity, repeated exposure	Category 2	
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
<b>Precautionary statement</b>	
<b>Prevention</b>	
P262	Do not get in eyes, on skin, or on clothing.
P261	Avoid breathing vapors or mist
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301 + P330 + P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a poison center/doctor.
P303 + P361 + P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P304 + P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use appropriate media to extinguish.

#### Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

#### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethyl-3-Ethoxypropionate		763-69-9	20-40
Xylene (Mixed Isomers)		1330-20-7	20-40
1-Methoxy-2-Propanol Acetate		108-65-6	10-30
Isobutyl Alcohol		78-83-1	10-30
2-Methyl-4-Pentanone		108-10-1	0.1-10
2-Pentanone		107-87-9	0.1-10
Diethyl Phthalate		117-81-7	0.1-10
Ethyl Benzene		100-41-4	0.1-10
Isopropanol		67-63-0	0.1-10

### 4. First-aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Eye contact

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

#### Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
<b>5. Fire-fighting measures</b>	
<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.
<b>6. Accidental release measures</b>	
<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Methyl-4-Pentanone (CAS 108-10-1)	PEL	410 mg/m <sup>3</sup> 100 ppm
2-Pentanone (CAS 107-87-9)	PEL	700 mg/m <sup>3</sup> 200 ppm
Diethyl Phthalate (CAS 117-81-7)	PEL	5 mg/m <sup>3</sup>
Ethyl Benzene (CAS 100-41-4)	PEL	435 mg/m <sup>3</sup> 100 ppm
Isobutyl Alcohol (CAS 78-83-1)	PEL	300 mg/m <sup>3</sup> 100 ppm
Isopropanol (CAS 67-63-0)	PEL	980 mg/m <sup>3</sup> 400 ppm
Xylene (Mixed Isomers) (CAS 1330-20-7)	PEL	435 mg/m <sup>3</sup> 100 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-Methyl-4-Pentanone (CAS 108-10-1)	STEL	75 ppm
2-Pentanone (CAS 107-87-9)	TWA STEL	20 ppm 150 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Diethyl Phthalate (CAS 117-81-7)	TWA	5 mg/m <sup>3</sup>
Ethyl Benzene (CAS 100-41-4)	TWA	20 ppm
Isobutyl Alcohol (CAS 78-83-1)	TWA	50 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Xylene (Mixed Isomers) (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
2-Methyl-4-Pentanone (CAS 108-10-1)	STEL	300 mg/m <sup>3</sup>
	TWA	75 ppm 205 mg/m <sup>3</sup> 50 ppm
2-Pentanone (CAS 107-87-9)	TWA	530 mg/m <sup>3</sup>
	STEL	150 ppm 10 mg/m <sup>3</sup>
Diethyl Phthalate (CAS 117-81-7)	TWA	5 mg/m <sup>3</sup>
	STEL	545 mg/m <sup>3</sup>
Ethyl Benzene (CAS 100-41-4)	TWA	125 ppm 435 mg/m <sup>3</sup> 100 ppm
	TWA	150 mg/m <sup>3</sup>
Isobutyl Alcohol (CAS 78-83-1)	TWA	150 mg/m <sup>3</sup>
	STEL	50 ppm 1225 mg/m <sup>3</sup> 500 ppm
Isopropanol (CAS 67-63-0)	TWA	980 mg/m <sup>3</sup> 400 ppm

**US. AIHA Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
1-Methoxy-2-Propanol Acetate (CAS 108-65-6)	TWA	50 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
2-Methyl-4-Pentanone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Ethyl Benzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
Xylene (Mixed Isomers) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - California OELs: Skin designation

1-Methoxy-2-Propanol Acetate (CAS 108-65-6)

Can be absorbed through the skin.

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

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

#### Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

##### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

#### Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

### General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Clear.

### Physical state

Liquid.

### Form

Liquid.

### Color

Colorless.

### Odor

Typical Solvent.

### pH

Not available.

### Melting point/freezing point

Not determined

### Initial boiling point and boiling range

179.6 °F (82 °C) estimated

### Flash point

46.0 °F (7.8 °C) Lowest Flashing component

### Evaporation rate

< 1 (BuAc = 1)

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 1 % estimated

**Flammability limit - upper (%)** 13 % estimated

### Vapor pressure

11.52 hPa @ 20 C (1 hPa = 0.75006 mmHg)

### Vapor density

> 1 (Air = 1)

### Solubility(ies)

#### Solubility (water)

Miscible

### Auto-ignition temperature

Not determined

### Other information

#### Pounds per gallon

7.3664 lb/gal

#### Specific gravity

0.884

#### VOC (Weight %)

100 %

## 10. Stability and reactivity

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical stability

Material is stable under normal conditions.

<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Suitable precautions should be utilized if using this product at temperatures above the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Harmful if swallowed. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
2-Methyl-4-Pentanone (CAS 108-10-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 16000 mg/kg
<b>Inhalation</b>		
LC50	Rat	8.2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2080 mg/kg
2-Pentanone (CAS 107-87-9)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	3.73 g/kg
Diocetyl Phthalate (CAS 117-81-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	10 g/kg
	Rabbit	25 g/kg
<b>Oral</b>		
LD50	Guinea pig	26.3 g/kg
	Mouse	> 30 g/kg
	Rabbit	33.9 g/kg
	Rat	> 25 g/kg
Ethyl Benzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg

Components	Species	Test Results
Isobutyl Alcohol (CAS 78-83-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3392 mg/kg
<b>Inhalation</b>		
LC50	Rat	8000 ppm, 4 Hours
LD50	Guinea pig	19.9 mg/l
	Rabbit	26.25 mg/l
	Rat	19.2 mg/l
<b>Oral</b>		
LD50	Mouse	3500 mg/kg
	Rat	2.46 g/kg
Isopropanol (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12800 mg/kg
<b>Oral</b>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
<b>Other</b>		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg
Xylene (Mixed Isomers) (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 43 g/kg
<b>Inhalation</b>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-Methyl-4-Pentanone (CAS 108-10-1)	2B Possibly carcinogenic to humans.
Diethyl Phthalate (CAS 117-81-7)	2B Possibly carcinogenic to humans.
Ethyl Benzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.

Xylene (Mixed Isomers) (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Diethyl Phthalate (CAS 117-81-7)

Reasonably Anticipated to be a Human Carcinogen.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation. May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2-Methyl-4-Pentanone (CAS 108-10-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 492 - 593 mg/l, 96 hours
2-Pentanone (CAS 107-87-9)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 1190 - 1290 mg/l, 96 hours
Diethyl Phthalate (CAS 117-81-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 0.133 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 0.2 mg/l, 96 hours
		> 0.2 mg/l, 96 hours
Ethyl Benzene (CAS 100-41-4)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 7.5 - 11 mg/l, 96 hours
Isobutyl Alcohol (CAS 78-83-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 950 - 1200 mg/l, 48 hours
Fish	LC50	Bleak ( <i>Alburnus alburnus</i> ) 1000 - 3000 mg/l, 96 hours
Isopropanol (CAS 67-63-0)		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 1400 mg/l, 96 hours
Xylene (Mixed Isomers) (CAS 1330-20-7)		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 7.711 - 9.591 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

1-Methoxy-2-Propanol Acetate	0.36, @ 25 C
2-Methyl-4-Pentanone	1.31
2-Pentanone	0.91

**Partition coefficient n-octanol / water (log Kow)**

Diethyl Phthalate	7.6
Ethyl Benzene	3.15
Ethyl-3-Ethoxypropionate	1.35
Isobutyl Alcohol	0.76
Isopropanol	0.05
Xylene (Mixed Isomers)	3.12
	3.12 - 3.2

**Mobility in soil**

No data available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations****Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**

Dispose in accordance with all applicable regulations.

**Waste from residues / unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information****DOT NON-BULK**

<b>UN number</b>	1993
<b>Proper shipping name</b>	Flammable Liquid, N.O.S., (Xylene, Isobutanol)
<b>Hazard class</b>	3
<b>Packing group</b>	II
<b>ERG code</b>	128

**15. Regulatory information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**TSCA Chemical Action Plans, Chemicals of Concern**

Diethyl Phthalate (CAS 117-81-7) Phthalates Action Plan

**CERCLA Hazardous Substance List (40 CFR 302.4)**

2-Methyl-4-Pentanone (CAS 108-10-1)	Listed.
2-Pentanone (CAS 107-87-9)	Listed.
Diethyl Phthalate (CAS 117-81-7)	Listed.
Ethyl Benzene (CAS 100-41-4)	Listed.
Isobutyl Alcohol (CAS 78-83-1)	Listed.
Xylene (Mixed Isomers) (CAS 1330-20-7)	Listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312**

Yes

**Hazardous chemical****SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Xylene (Mixed Isomers)	1330-20-7	20-40

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
2-Methyl-4-Pentanone	108-10-1	0.1-10
Diethyl Phthalate	117-81-7	0.1-10
Ethyl Benzene	100-41-4	0.1-10

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

2-Methyl-4-Pentanone (CAS 108-10-1)  
 Diethyl Phthalate (CAS 117-81-7)  
 Ethyl Benzene (CAS 100-41-4)  
 Xylene (Mixed Isomers) (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**DEA Essential Chemical Code Number**

2-Methyl-4-Pentanone (CAS 108-10-1) 6715

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

2-Methyl-4-Pentanone (CAS 108-10-1) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

2-Methyl-4-Pentanone (CAS 108-10-1) 6715

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

2-Methyl-4-Pentanone (CAS 108-10-1) Low priority  
 2-Pentanone (CAS 107-87-9) Low priority  
 Isobutyl Alcohol (CAS 78-83-1) Low priority  
 Isopropanol (CAS 67-63-0) Low priority

**US state regulations****US - New Jersey RTK - Substances: Listed substance**

2-Methyl-4-Pentanone (CAS 108-10-1)  
 2-Pentanone (CAS 107-87-9)  
 Diethyl Phthalate (CAS 117-81-7)  
 Ethyl Benzene (CAS 100-41-4)  
 Isobutyl Alcohol (CAS 78-83-1)  
 Isopropanol (CAS 67-63-0)  
 Xylene (Mixed Isomers) (CAS 1330-20-7)

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**

Diethyl Phthalate (CAS 117-81-7)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

2-Methyl-4-Pentanone (CAS 108-10-1)  
 Diethyl Phthalate (CAS 117-81-7)  
 Ethyl Benzene (CAS 100-41-4)  
 Isopropanol (CAS 67-63-0)  
 Xylene (Mixed Isomers) (CAS 1330-20-7)

**US. Massachusetts RTK - Substance List**

2-Methyl-4-Pentanone (CAS 108-10-1)  
 2-Pentanone (CAS 107-87-9)  
 Ethyl Benzene (CAS 100-41-4)  
 Isobutyl Alcohol (CAS 78-83-1)  
 Isopropanol (CAS 67-63-0)  
 Xylene (Mixed Isomers) (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

2-Methyl-4-Pentanone (CAS 108-10-1)  
 Diethyl Phthalate (CAS 117-81-7)  
 Ethyl Benzene (CAS 100-41-4)  
 Xylene (Mixed Isomers) (CAS 1330-20-7)

## US. Pennsylvania RTK - Hazardous Substances

2-Methyl-4-Pentanone (CAS 108-10-1)  
2-Pentanone (CAS 107-87-9)  
Dioctyl Phthalate (CAS 117-81-7)  
Ethyl Benzene (CAS 100-41-4)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Xylene (Mixed Isomers) (CAS 1330-20-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

2-Methyl-4-Pentanone (CAS 108-10-1)  
2-Pentanone (CAS 107-87-9)  
Dioctyl Phthalate (CAS 117-81-7)  
Ethyl Benzene (CAS 100-41-4)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Xylene (Mixed Isomers) (CAS 1330-20-7)

## US. Rhode Island RTK

2-Methyl-4-Pentanone (CAS 108-10-1)  
Dioctyl Phthalate (CAS 117-81-7)  
Ethyl Benzene (CAS 100-41-4)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Xylene (Mixed Isomers) (CAS 1330-20-7)

## US. California Proposition 65

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

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2-Methyl-4-Pentanone (CAS 108-10-1)	Listed: November 4, 2011
Dioctyl Phthalate (CAS 117-81-7)	Listed: January 1, 1988
Ethyl Benzene (CAS 100-41-4)	Listed: June 11, 2004

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

2-Methyl-4-Pentanone (CAS 108-10-1)	Listed: March 28, 2014
Dioctyl Phthalate (CAS 117-81-7)	Listed: October 24, 2003

### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Dioctyl Phthalate (CAS 117-81-7)	Listed: October 24, 2003
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## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 09-11-2017

**Version #** 01

**Disclaimer** Superior Oil Company, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is based on data available to us and is accurate and reliable to the best of our knowledge at the time of printing. However, no warranty is expressed or implied regarding the accuracy or completeness of the information contained herein. Final determination of the suitability of this material for the use contemplated is the sole responsibility of the user. Buyer assumes all risk and liabilities. Buyer accepts and uses this material on these conditions.