



# Material Safety Data Sheet

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Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** ONTARIO FULL-CHROME YELLOW SOLVENT PAINT(8000L)  
**Product Code(s)** T-40-4385  
**UN-Number** UN1263  
**Recommended Use** Traffic paint  
**Product Technology** S/B

### Supplier Address

Ennis Paint Inc.  
5910 North Central Expressway  
Suite 1050  
Dallas TX 75206  
T: 800.331.8118  
800.331.8118 (For Technical Inquiries)

**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Highly flammable liquid and vapor  
Irritating to eyes and skin  
Risk of serious damage to the lungs (by aspiration)  
Causes central nervous system depression.  
Cancer hazard

May adversely affect nervous system, liver, kidney and heart.

Contains a known or suspected reproductive toxin

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

**Appearance** Yellow

**Physical State** Liquid.

**Odor** Aromatic solvent/toluene

### **Potential Health Effects**

**Principle Routes of Exposure** Inhalation. Skin contact. Eye contact.

### **Acute Toxicity**

**Eyes**

Moderately irritating to the eyes

**Skin**

Irritating to skin. Repeated exposure may cause skin dryness or cracking.

**Inhalation**

Inhalation in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

**Ingestion**

Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Aspiration may cause pulmonary edema and pneumonitis. Dried film of this coating may be harmful if chewed or swallowed. May cause additional affects as listed under "Inhalation".

<b>Chronic Effects</b>	Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Contains toluene. Exposure to toluene in animals via inhalation and intentional overexposure to toluene in humans has caused adverse fetal development effects. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. May adversely affect the lung, liver, heart, and kidney.
<b>Main Symptoms</b>	Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness. Severe exposures can lead to shock, circulatory collapse, and death..
<b>Aggravated Medical Conditions</b>	Exposure to chlorinated hydrocarbons, such as chloroform and trichloroethane, may increase toxic effects. Liver disorders, kidney disorders, central nervous system, cardiovascular, blood disorders and respiratory disorders. Skin disorders. Pre-existing eye disorders.
<b>Interactions with Other Chemicals</b>	Use of alcoholic beverages may enhance toxic effects.
<b>Environmental Hazard</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Toluene	108-88-3	15-40
Lead chromate	7758-97-6	15-40
Naphtha, petroleum, hydrotreated light	64742-49-0	10-30
Calcined Kaolin	92704-41-1	7-13
Solvent naphtha (petroleum), light aliphatic	64742-89-8	7-13
Titanium dioxide	13463-67-7	5-10
Heptane	142-82-5	5-10
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Hexane	110-54-3	1-5
Stoddard solvent	8052-41-3	1-5
Methyl alcohol	67-56-1	1-5
Ethyl benzene	100-41-4	0.1-1
Quartz	14808-60-7	0.1-1
Hexanoic acid, 2-ethyl-, lead(2+) salt	301-08-6	0.1-1
Benzene	71-43-2	<0.1

#### 4. FIRST AID MEASURES

<b>General Advice</b>	If swallowed, get medical help or contact a Poison Control Center right away. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Consult a physician.
<b>Inhalation</b>	Move victim to fresh air. If breathing has stopped, contact emergency medical services immediately. If not breathing, give artificial respiration.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Aspiration hazard. Treat symptomatically.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Highly flammable liquid and vapor
<b>Flash Point</b>	-14°F / -10°C
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Use water spray or fog; do not use straight streams.
<b>Unsuitable Extinguishing Media</b>	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Specific Hazards Arising from the Chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 2*	<b>Flammability</b> 3	<b>Physical Hazard</b> 0	<b>Personal Protection</b> -

\*Indicates a chronic health hazard.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Prevent entry into waterways, sewers, basements or confined areas. Do not allow material to contaminate ground water system.
<b>Methods for Containment</b>	Dike far ahead of liquid spill for later disposal. A vapor suppressing foam may be used to reduce vapors.
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ground and bond containers when transferring material. Pick up and transfer to properly labeled containers.
<b>Other Information</b>	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep away from heat. Keep away from direct sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexanoic acid, 2-ethyl-, lead(2+) salt 301-08-6			IDLH: 100 mg/m <sup>3</sup> Pb TWA: 0.050 mg/m <sup>3</sup> Pb
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	IDLH: 20000 mg/m <sup>3</sup> Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 350 mg/m <sup>3</sup>
Lead chromate 7758-97-6	TWA: 0.012 mg/m <sup>3</sup> Cr TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 5 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> Pb Action Level: 2.5 µg/m <sup>3</sup> Cr Action Level: 30 µg/m <sup>3</sup> Pb Poison, See 29 CFR 1910.1025 (vacated) Ceiling: 0.1 mg/m <sup>3</sup> Ceiling: 0.1 mg/m <sup>3</sup> CrO <sub>3</sub> applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 100 mg/m <sup>3</sup> Pb IDLH: 15 mg/m <sup>3</sup> Cr(VI) TWA: 0.050 mg/m <sup>3</sup> Pb TWA: 0.001 mg/m <sup>3</sup> Cr
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup> STEL: 250 ppm
Hexane 110-54-3	STEL: 1000 ppm other than n-Hexane TWA: 50 ppm S*	TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m <sup>3</sup> (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m <sup>3</sup>	IDLH: 1100 ppm Ceiling: 510 ppm 15 min Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Ethyl benzene 100-41-4	STEL: 125 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m <sup>3</sup> (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>
Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m <sup>3</sup>	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 85 ppm TWA: 350 mg/m <sup>3</sup>
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m <sup>3</sup> Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures**

Showers. Eyewash stations. Explosion proof ventilation systems.

**Personal Protective Equipment**

<b>Eye/Face Protection</b>	Tightly fitting safety goggles. Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellow.	<b>Odor</b>	Aromatic solvent/toluene.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Flash Point</b>	-14°F / -10°C	<b>Boiling Point/Boiling Range</b>	>35°C / >95°F
<b>Decomposition Temperature</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	(Toluene)		
<b>Upper</b>	7.1%		
<b>Lower</b>	1.1%		
<b>Solubility</b>	No information available.	<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong oxidizing agents. Strong acids. Chlorinated compounds.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Lead and chromium compounds.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl ethyl ketoxime	= 930 mg/kg ( Rat )	= 0.2 mg/kg ( Rabbit )	= 20 mg/L ( Rat ) 4 h
Naphtha, petroleum, hydrotreated light	> 5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 73680 ppm ( Rat ) 4 h
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg ( Rabbit )	83.2 mg/L ( Rat ) 4 h 64000 ppm ( Rat ) 4 h
Solvent naphtha (petroleum), light aliphatic		= 3000 mg/kg ( Rabbit )	
Hexane	= 25 g/kg ( Rat )	= 3000 mg/kg ( Rabbit )	= 48000 ppm ( Rat ) 4 h
Xylenes (o-, m-, p- isomers)	= 4300 mg/kg ( Rat )	> 1700 mg/kg ( Rabbit )	= 47635 mg/L ( Rat ) 4 h = 5000 ppm ( Rat ) 4 h
Heptane		= 3000 mg/kg ( Rabbit )	= 103 g/m <sup>3</sup> ( Rat ) 4 h
Toluene	= 636 mg/kg ( Rat )	12124 mg/kg ( Rat ) 8390 mg/kg ( Rabbit )	26700 ppm ( Rat ) 1 h
Quartz	500 mg/kg ( Rat )		

### Chronic Toxicity

#### **Chronic Toxicity**

Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Contains toluene. Exposure to toluene in animals via inhalation and intentional overexposure to toluene in humans has caused adverse fetal development effects. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. May adversely affect the lung, liver, heart, and kidney.

#### **Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Toluene		Group 3	-	-
Lead chromate	A3 A2	Group 2A Group 1	Known	X
Titanium dioxide		Group 2B		X
Xylenes (o-, m-, p- isomers)		Group 3	-	-
Ethyl benzene	A3	Group 2B		X
Quartz	A2	Group 1	Known	X
Hexanoic acid, 2-ethyl-, lead(2+) salt		Group 3	Reasonably Anticipated	X
Benzene	A1	Group 1	Known	X

#### **ACGIH: (American Conference of Governmental Industrial Hygienists)**

- A1 - Known Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

#### **IARC: (International Agency for Research on Cancer)**

- Group 1 - Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans
- Group 3: Not Classifiable as to its Carcinogenicity to Humans

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**NTP: (National Toxicity Program)**

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Reproductive Toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

**Target Organ Effects**

Central nervous system (CNS). Central vascular system (CVS). Kidney. Liver. Respiratory system.



**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Toluene	EC50: >433 mg/L Pseudokirchneriella subcapitata 96 h EC50: 12.5 mg/L Pseudokirchneriella subcapitata 72 h static	LC50: 15.22-19.05 mg/L Pimephales promelas 96 h flow-through LC50: 12.6 mg/L Pimephales promelas 96 h static LC50: 5.89-7.81 mg/L Oncorhynchus mykiss 96 h flow-through LC50: 14.1-17.16 mg/L Oncorhynchus mykiss 96 h static LC50: 5.8 mg/L Oncorhynchus mykiss 96 h semi-static LC50: 11.0-15.0 mg/L Lepomis macrochirus 96 h static LC50: 54 mg/L Oryzias latipes 96 h static LC50: 28.2 mg/L Poecilia reticulata 96 h semi-static LC50: 50.87-70.34 mg/L Poecilia reticulata 96 h static	EC50 = 19.7 mg/L 30 min	EC50 48 h: 5.46 - 9.83 mg/L Static (Daphnia magna) EC50 48 h: = 11.5 mg/L (Daphnia magna)
Naphtha, petroleum, hydrotreated light				LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
Calcined Kaolin	EC50 72 h: > 100 mg/L (Desmodesmus subspicatus)	LC50 96 h: > 100 mg/L semi- static (Oncorhynchus mykiss)		EC50 48 h: > 1 mg/L (Daphnia magna)
Solvent naphtha (petroleum), light aliphatic	EC50 72 h: = 4700 mg/L (Pseudokirchneriella subcapitata)			
Heptane		LC50 96 h: = 375.0 mg/L (Cichlid fish)		EC50 24 h: > 10 mg/L (Daphnia magna)
Xylenes (o-, m-, p- isomers)		LC50 96 h: 13.1-16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5-17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 2.661-4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53-29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26-40.75 mg/L static (Poecilia reticulata) LC50 96 h: 7.711-9.591 mg/L static (Lepomis macrochirus) LC50 96 h: = 13.4 mg/L flow- through (Pimephales promelas) LC50 96 h: = 19 mg/L (Lepomis macrochirus) LC50 96 h: = 780 mg/L semi- static (Cyprinus carpio) LC50 96 h: > 780 mg/L (Cyprinus carpio)	EC50 = 0.0084 mg/L 24 h	LC50 48 h: = 0.6 mg/L (Gammarus lacustris) EC50 48 h: = 3.82 mg/L (water flea)
Hexane		LC50 96 h: 2.1-2.98 mg/L flow-through (Pimephales promelas)		EC50 24 h: > 1000 mg/L (Daphnia magna)

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol	-	LC50 96 h: 13500 - 17600 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-
Ethyl benzene	EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 2.6 - 11.3 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: = 4.6 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: > 438 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 11.0-18.0 mg/L static (Oncorhynchus mykiss) LC50 96 h: 7.55-11 mg/L flow-through (Pimephales promelas) LC50 96 h: 9.1-15.6 mg/L static (Pimephales promelas) LC50 96 h: = 32 mg/L static (Lepomis macrochirus) LC50 96 h: = 4.2 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 9.6 mg/L static (Poecilia reticulata)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 48 h: 1.8 - 2.4 mg/L (Daphnia magna)
Benzene	EC50 72 h: = 29 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 10.7-14.7 mg/L flow-through (Pimephales promelas) LC50 96 h: 22330-41160 µg/L static (Pimephales promelas) LC50 96 h: 70000-142000 µg/L static (Lepomis macrochirus) LC50 96 h: = 22.49 mg/L static (Lepomis macrochirus) LC50 96 h: = 28.6 mg/L static (Poecilia reticulata) LC50 96 h: = 5.3 mg/L flow-through (Oncorhynchus mykiss)		EC50 48 h: 8.76 - 15.6 mg/L Static (Daphnia magna) EC50 48 h: = 10 mg/L (Daphnia magna)

Chemical Name	Log Pow
Toluene	2.65
Heptane	4.66
Xylenes (o-, m-, p- isomers)	3.15
Methyl alcohol	-0.77
Ethyl benzene	3.118
Benzene	1.83

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Dispose of in accordance with local regulations. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Do not re-use empty containers.

**US EPA Waste Number**  
D001  
D018  
U019  
U056  
U154  
U220

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Toluene - 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220
Methyl alcohol - 67-56-1		Included in waste stream: F039		U154
Ethyl benzene - 100-41-4		Included in waste stream: F039		
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172	= 0.5 mg/L regulatory level	U019

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Toluene	Toxic Ignitable
Lead chromate	Toxic Corrosive Ignitable
Heptane	Toxic Ignitable
Xylenes (o-, m-, p- isomers)	Toxic Ignitable
Hexane	Toxic Ignitable
Methyl alcohol	Toxic Ignitable

Chemical Name	California Hazardous Waste
Ethyl benzene	Toxic Ignitable
Hexanoic acid, 2-ethyl-, lead(2+) salt	Toxic
Benzene	Toxic Ignitable

## 14. TRANSPORT INFORMATION

**Note:** This product contains hazardous materials with reportable quantities as listed in Section 15. Based on net weight of product, the shipping description and label may need to be marked with "RQ."

### DOT

UN-Number	UN1263
Proper shipping name	Paint
Hazard Class	3
Subsidiary Class	None
Packing Group	II
Description	UN1263,Paint,3,PG II,Marine Pollutant
Emergency Response Guide Number	128

### TDG

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
Description	UN1263,PAINT,3,PG II,Marine Pollutant

### MEX

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
Description	UN1263 Paint,3,II

### ICAO

UN-Number	UN1263
Proper shipping name	Paint related material
Hazard Class	3
Packing Group	II
Description	UN1263,Paint related material,3,PG II

### IATA

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1263,Paint,3,PG II

### IMDG/IMO

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-E
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Description	UN1263, Paint,3,PG II,Marine Pollutant

### RID

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3

**Packing Group** II  
**Classification Code** F1  
**Description** UN1263 Paint,3,II

**ADR**

**UN-Number** UN1263  
**Proper Shipping Name** Paint  
**Hazard Class** 3  
**Packing Group** II  
**Classification Code** F1  
**Description** UN1263 Paint,3,II

**ADN**

**UN-No** UN1263  
**Proper Shipping Name** Paint  
**Hazard Class** 3  
**Packing Group** II  
**Classification Code** F1  
**Special Provisions** 163, 640C, 650  
**Description** UN1263 Paint,3,II  
**Hazard Labels** 3  
**Limited Quantity** LQ6  
**Ventilation** VE01

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead chromate	7758-97-6	19.899	0.1
Toluene	108-88-3	55.7604	1.0
Methyl alcohol	67-56-1	1.06	1.0
Hexane	110-54-3	1.75	1.0

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes  
**Chronic Health Hazard** Yes  
**Fire Hazard** Yes  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hexanoic acid, 2-ethyl-, lead(2+) salt		X		
Lead chromate		X		
Benzene	10 lb	X	X	X
Ethyl benzene	1000 lb	X	X	X
Toluene	1000 lb	X	X	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ
Benzene	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Hexane	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl benzene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Xylenes (o-, m-, p- isomers)			RQ 100 lb final RQ RQ 45.4 kg final RQ
Toluene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Hexanoic acid, 2-ethyl-, lead(2+) salt	301-08-6	Carcinogen
Lead chromate	7758-97-6	Carcinogen Developmental Female Reproductive Male Reproductive
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
Toluene	108-88-3	Developmental
Quartz	14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	X	X	X	-	X
Hexanoic acid, 2-ethyl-, lead(2+) salt			X	X	
Stoddard solvent	X	X	X		X
Titanium dioxide	X	X	X	-	X
Lead chromate	X	X	X	X	X
Toluene	X	X	X	X	X
Ethyl benzene	X	X	X	X	X
Xylenes (o-, m-, p- isomers)		X			X
Heptane	X	X	X		X
Methyl alcohol	X	X	X	X	X
Hexane	X	X	X	X	X

**International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Stoddard solvent		Mexico: TWA 100 ppm Mexico: TWA 523 mg/m <sup>3</sup> Mexico: STEL 200 ppm Mexico: STEL 1050 mg/m <sup>3</sup>
Ci 77491		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Iron oxide		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Lead chromate	A1	Mexico: TWA= 0.01 mg/m <sup>3</sup> Mexico: TWA= 0.05 mg/m <sup>3</sup> Mexico: TWA= 0.15 mg/m <sup>3</sup> Mexico: TWA= 0.5 mg/m <sup>3</sup>
Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m <sup>3</sup>
Benzene	A2	Mexico: TWA= 1 ppm Mexico: TWA= 3.2 mg/m <sup>3</sup> Mexico: STEL= 16 mg/m <sup>3</sup> Mexico: STEL= 5 ppm
Hexane		Mexico: TWA 50 ppm Mexico: TWA 176 mg/m <sup>3</sup> Mexico: STEL 1000 ppm Mexico: STEL 3500 mg/m <sup>3</sup>
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>
Ethyl benzene		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup> Mexico: STEL 125 ppm Mexico: STEL 545 mg/m <sup>3</sup>
Xylenes (o-, m-, p- isomers)		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup> Mexico: STEL 150 ppm Mexico: STEL 655 mg/m <sup>3</sup>
Heptane		Mexico: TWA 400 ppm Mexico: TWA 1600 mg/m <sup>3</sup> Mexico: STEL 500 ppm Mexico: STEL 2000 mg/m <sup>3</sup>
Toluene		Mexico: TWA= 50 ppm Mexico: TWA= 188 mg/m <sup>3</sup>
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

- B2 Flammable liquid
- D2A Very toxic materials
- D2B Toxic materials



Canadian National Pollutant Release Inventory (NPRI)

Chemical Name	NPRI
Lead chromate	X
Methyl alcohol	X
Benzene	X
Hexane	X
Ethyl benzene	X



Chemical Name	NPRI
Xylenes (o-, m-, p- isomers)	X
Toluene	X

**Legend**

X - Listed

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 09-May-2011

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

**End of Safety Data Sheet**