



# Material Safety Data Sheet

<p><b>NFPA</b></p> 	<p><b>HMIS</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: cyan;">Health Hazard</td> <td style="text-align: center; border: 1px solid black;">2</td> </tr> <tr> <td style="background-color: pink;">Fire Hazard</td> <td style="text-align: center; border: 1px solid black;">3</td> </tr> <tr> <td style="background-color: yellow;">Reactivity</td> <td style="text-align: center; border: 1px solid black;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	3	Reactivity	0	<p><b>Personal Protective Equipment</b></p>  <p>See Section 15.</p>
Health Hazard	2							
Fire Hazard	3							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
<b>Common Name/Trade Name</b>	<b>Titraton Solvent, Mixture, ASTM</b>	Catalog Number(s): T1074
		CAS#: Mixture.
<b>Manufacturer</b>	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	RTECS: Not applicable.
<b>Commercial Name(s)</b>	Not available.	TSCA: TSCA 8(b) inventory: Toluene; Isopropyl alcohol; Water
<b>Synonym</b>	Titration Solvent; 1:1 Toluene-IPA; Isopropyl Alcohol-Toluene (1:1); Toluene-Isopropyl Alcohol (1:1)	CI#: Not available.
<b>Chemical Name</b>	Not applicable.	<p><b><u>IN CASE OF EMERGENCY</u></b> <b><u>CHEMTREC (24hr) 800-424-9300</u></b></p> <p>CALL (310) 516-8000</p>
<b>Chemical Family</b>	Not available.	
<b>Chemical Formula</b>	Not applicable.	
<b>Supplier</b>	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) Toluene	108-88-3	100	150		50
2) Isopropyl alcohol	67-63-0	980	1225		49.5
3) Water	7732-18-5				0.5
<p><b>Toxicological Data on Ingredients</b></p> <p><b>Toluene:</b>            ORAL (LD50): Acute: 636 mg/kg [Rat].            DERMAL (LD50): Acute: 8390 mg/kg [Rabbit]. 12124 mg/kg [Rat].            VAPOR (LC50): Acute: 49000 mg/m<sup>3</sup> 4 hours [Rat]. 12.5 mg/l 4 hours [Rat]. &gt;26700 ppm 1 hours [Rat]. 30000 mg/m<sup>3</sup> 2 hours [Mouse].</p> <p><b>Isopropyl alcohol:</b>            ORAL (LD50): Acute: 4396 mg/kg [Rat]. 3600 mg/kg [Mouse]. 6410 mg/kg [Rabbit].            DERMAL (LD50): Acute: 12800 mg/kg [Rabbit].            VAPOR (LC50): Acute: 72600 mg/m<sup>3</sup> 4 hours [Rat].</p>					

**Section 3. Hazards Identification**

<b>Potential Acute Health Effects</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.
<b>Potential Chronic Health Effects</b>	<p><b>CARCINOGENIC EFFECTS:</b> Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Toluene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol].</p> <p><b>MUTAGENIC EFFECTS:</b> Not available.</p> <p><b>TERATOGENIC EFFECTS:</b> Not available.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Not available.</p> <p>The substance may be toxic to kidneys, liver, brain, peripheral nervous system, skin, central nervous system (CNS).</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage.</p>

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Serious Skin Contact</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Serious Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Aspiration hazard if swallowed- can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.
<b>Serious Ingestion</b>	Not available.

**Section 5. Fire and Explosion Data**

<b>Flammability of the Product</b>	Flammable.
<b>Auto-Ignition Temperature</b>	The lowest known value is 399°C (750.2°F) (Isopropyl alcohol).
<b>Flash Points</b>	The lowest known value is CLOSED CUP: 4.4444°C (40° F). (Setaflash). OPEN CUP: 16°C (60.8°F). (Toluene)
<b>Flammable Limits</b>	The greatest known range is LOWER: 2% UPPER: 12.7% (Isopropyl alcohol)
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames and sparks, of heat.
<b>Explosion Hazards in Presence of Various Substances</b>	Explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. <b>CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME.</b> Hydrogen peroxide sharply reduces the autoignition temperature of Isopropyl alcohol. After a delay, Isopropyl alcohol ignites on contact with dioxgenyl tetrafluorborate, chromium trioxide, and potassium tert-butoxide. When heated to decomposition it emits acrid smoke and fumes. (Isopropyl alcohol)

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**Special Remarks on Explosion Hazards** Toluene forms explosive reaction with 1,3-dichloro-5,5-dimethyl-2,4-imidazolididione; dinitrogen tetraoxide; concentrated nitric acid, sulfuric acid + nitric acid; N2O4; AgClO4; BrF3; Uranium hexafluoride; sulfur dichloride. Also forms an explosive mixture with tetranitromethane.  
 (Toluene)  
 Secondary alcohols are readily autooxidized in contact with oxygen or air, forming ketones and hydrogen peroxide. It can become potentially explosive.  
 It reacts with oxygen to form dangerously unstable peroxides which can concentrate and explode during distillation or evaporation. The presence of 2-butanone increases the reaction rate for peroxide formation.  
 Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air.  
 Isopropyl alcohol + phosgene forms isopropyl chloroformate and hydrogen chloride.  
 In the presence of iron salts, thermal decomposition can occur, which in some cases can become explosive.  
 A homogeneous mixture of concentrated peroxides + isopropyl alcohol are capable of detonation by shock or heat.  
 Barium perchlorate + isopropyl alcohol gives the highly explosive alkyl perchlorates.  
 It forms explosive mixtures with trinitromethane and hydrogen peroxide.  
 It produces a violent explosive reaction when heated with aluminum isopropoxide + crotonaldehyde.  
 Mixtures of isopropyl alcohol + nitroform are explosive.  
 (Isopropyl alcohol)

**Section 6. Accidental Release Measures**

**Small Spill** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill** Flammable liquid.  
 Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

**Section 7. Handling and Storage**

**Precautions** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

**Storage** Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection** Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**  
**Toluene**  
 TWA: 50 (ppm) from ACGIH (TLV) [1995]  
 TWA: 188 (mg/m<sup>3</sup>) from ACGIH [1995]  
  
**Isopropyl alcohol**  
 TWA: 400 STEL: 500 (ppm) from ACGIH (TLV) [1995]  
 TWA: 980 STEL: 1230 (mg/m<sup>3</sup>) from ACGIH [1995]  
  
 Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Liquid.	<b>Odor</b>	Not available.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Not available.	<b>Color</b>	Not available.
<b>Boiling Point</b>	The lowest known value is 82.5°C (180.5°F) (Isopropyl alcohol). Weighted average: 96.62°C (205.9°F)		
<b>Melting Point</b>	May start to solidify at -88.5°C (-127.3°F) based on data for: Isopropyl alcohol. Weighted average: -91.77°C (-133.2°F)		
<b>Critical Temperature</b>	The lowest known value is 235°C (455°F) (Isopropyl alcohol).		
<b>Specific Gravity</b>	Weighted average: 0.82 (Water = 1)		
<b>Vapor Pressure</b>	The highest known value is 4.4 kPa (@ 20°C) (Isopropyl alcohol). Weighted average: 4.1 kPa (@ 20°C)		
<b>Vapor Density</b>	The highest known value is 3.1 (Air = 1) (Toluene). Weighted average: 2.59 (Air = 1)		
<b>Volatility</b>	100% (w/w). (Isopropyl alcohol.)		
<b>Odor Threshold</b>	The highest known value is 22 ppm (Isopropyl alcohol) Weighted average: 11.75 ppm		
<b>Water/Oil Dist. Coeff.</b>	The product is equally soluble in oil and water.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol, acetone.		
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.		

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	Heat, incompatible materials
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents, acids, alkalis.
<b>Corrosivity</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity</b>	<p>Incompatible with strong oxidizers, silver perchlorate, sodium difluoride, Tetranitromethane, Uranium Hexafluoride.</p> <p>Frozen Bromine Trifluoride reacts violently with Toluene at -80 deg. C.</p> <p>Reacts chemically with nitrogen oxides, or halogens to form nitrotoluene, nitrobenzene, and nitrophenol and halogenated products, respectively. (Toluene)</p> <p>Reacts violently with hydrogen + palladium combination, nitroform, oleum, COCl<sub>2</sub>, aluminum triisopropoxide, oxidants</p> <p>Incompatible with acetaldehyde, chlorine, ethylene oxide, isocyanates, acids, alkaline earth, alkali metals, caustics, amines, crotonaldehyde, phosgene, ammonia.</p> <p>Isopropyl alcohol reacts with metallic aluminum at high temperatures.</p> <p>Isopropyl alcohol attacks some plastics, rubber, and coatings.</p> <p>Vigorous reaction with sodium dichromate + sulfuric acid. (Isopropyl alcohol)</p>
<b>Special Remarks on Corrosivity</b>	Not available.
<b>Polymerization</b>	Will not occur.

**Section 11. Toxicological Information**

<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 636 mg/kg [Rat]. (Toluene). Acute dermal toxicity (LD50): 8390 mg/kg [Rabbit]. (Toluene).
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Toluene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol]. May cause damage to the following organs: kidneys, liver, brain, peripheral nervous system, skin, central nervous system (CNS).
<b>Other Toxic Effects on Humans</b>	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
<b>Special Remarks on Toxicity to Animals</b>	Lowest Published Lethal Dose: LDL [Human] - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 45000 ppm/40min (Toluene)
<b>Special Remarks on Chronic Effects on Humans</b>	May cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic)
<b>Special Remarks on other Toxic Effects on Humans</b>	Acute Potential Health Effects: Skin: Causes mild to moderate skin irritation. It can be absorbed to some extent through the skin. Eyes: Causes mild to moderate eye irritation with a burning sensation. Splash contact with eyes also causes conjunctivitis, blepharospasm, corneal edema, corneal abrasions. This usually resolves in 2 days. Inhalation: Inhalation of vapor may cause respiratory tract irritation causing coughing and wheezing, and nasal discharge. Inhalation of high concentrations may affect behavior and cause central nervous system effects characterized by nausea, headache, dizziness, tremors, restlessness, lightheadedness, exhilaration, memory loss, insomnia, impaired reaction time, drowsiness, ataxia, hallucinations, somnolence, muscle contraction or spasticity, unconsciousness and coma. Inhalation of high concentration of vapor may also affect the cardiovascular system (rapid heart beat, heart palpitations, increased or decreased blood pressure, dysrhythmia, ), respiration (acute pulmonary edema, respiratory depression, apnea, asphyxia), cause vision disturbances and dilated pupils, and cause loss of appetite. Ingestion: Aspiration hazard. Aspiration of Toluene into the lungs may cause chemical pneumonitis. May cause irritation of the digestive tract with nausea, vomiting, pain. May have effects similar to that of acute inhalation. Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation and ingestion as well liver damage/failure, kidney damage/failure (with hematuria, proteinuria, oliguria, renal tubular acidosis), brain damage, weight loss, blood (pigmented or nucleated red blood cells, changes in white blood cell count), bone marrow changes, electrolyte imbalances (Hypokalemia, Hypophosphatemia), severe, muscle weakness and Rhabdomyolysis. Skin: Repeated or prolonged skin contact may cause defatting dermatitis. (Toluene) Acute Potential Health Effects: Skin: May cause mild skin irritation, and sensitization. It can be absorbed through the skin and cause systemic effects. Eyes: Can cause eye irritation. Inhalation: Breathing in small amounts of this material during normal handling is not likely to cause harmful effects. However, breathing large amounts may be harmful and may affect respiration (difficulty breathing, respiratory depression, suffocation), respiratory tract and mucous membranes (irritation), behavior/central nervous system (Central nervous system depression - headache, dizziness, drowsiness, fatigue, reduced memory and concentration, stupor, incoordination, hallucinations/distorted perceptions, unconsciousness, coma and possible death), cardiovascular system (pulse rate, blood pressure), blood, urinary system, and liver. Acute inhalation may also cause hypothermia. Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Swallowing large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea, abdominal pain. It also may affect the urinary system, cardiovascular system (pulse rate, blood pressure), behavior/central nervous system (somnolence, generally depressed activity, irritability, headache, dizziness, drowsiness, hallucinations/distorted perceptions, coma), liver, and respiratory system (breathing difficulty, respiratory depression, pulmonary edema). Acute ingestion may also cause hypothermia, and cause pulmonary aspiration with resultant chemical pneumonitis. Chronic Potential Health Effects: Skin: May cause defatting of the skin and dermatitis and allergic reaction. Inhalation: Prolonged or repeated inhalation may affect behavior/central nervous system (see acute inhalation), peripheral nervous system (weakness, "pins and needles sensation), brain, urinary system, blood, liver. It may cause an increase of upper respiratory tract diseases and high blood pressure. (Isopropyl alcohol)


**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.
<b>Special Remarks on the Products of Biodegradation</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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**Section 14. Transport Information**

<b>DOT Classification</b>	CLASS 3: Combustible liquid with a flash point greater than 37.8C (100F).
<b>Identification</b>	UNNA: 1993 : Flammable Liquid, n.o.s. (Isopropanol; Toluene, mixture) PG: II
<b>Special Provisions for Transport</b>	Not available.
<b>DOT (Pictograms)</b>	

**Section 15. Other Regulatory Information and Pictograms**

<b>Federal and State Regulations</b>	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Toluene</p> <p>California prop. 65 (no significant risk level): Toluene: 7 mg/day (value)</p> <p>California prop. 65 (acceptable daily intake level): Toluene: 7 mg/day (value)</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene</p> <p>New York release reporting list: Toluene</p> <p>Rhode Island RTK hazardous substances: Toluene; Isopropyl alcohol</p> <p>Pennsylvania RTK: Toluene; Isopropyl alcohol</p> <p>Minnesota: Toluene; Isopropyl alcohol</p> <p>Michigan critical material: Toluene</p> <p>Massachusetts RTK: Toluene; Isopropyl alcohol</p> <p>New Jersey: Toluene; Isopropyl alcohol</p> <p>New Jersey spill list: Toluene; Isopropyl alcohol</p> <p>Louisiana spill reporting: Toluene</p> <p>TSCA 8(b) inventory: Toluene; Isopropyl alcohol; Water</p> <p>TSCA 4(a) final testing order: Isopropyl alcohol</p> <p>TSCA 8(a) IUR: Isopropyl alcohol</p> <p>TSCA 8(d) H and S data reporting: Toluene: Effective date: 10/04/82; Sunset Date: 10/0/92; Isopropyl alcohol: Effective date: 12/15/86 Sunset Date: 12/15/96</p> <p>TSCA 12(b) one time export: Isopropyl alcohol</p> <p>SARA 313 toxic chemical notification and release reporting: Toluene 50%; Isopropyl alcohol 49.5%</p> <p>CERCLA: Hazardous substances.: Toluene: 1000 lbs. (453.6 kg);</p>
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<b>California Proposition 65 Warnings</b>	California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene
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**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 For Isopropyl alcohol:  
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 200-661-7).  
 Canada: Listed on Canadian Domestic Substance List (DSL).  
 China: Listed on National Inventory.  
 Japan: Listed on National Inventory (ENCS).  
 Korea: Listed on National Inventory (KECI).  
 Philippines: Listed on National Inventory (PICCS).  
 Australia: Listed on AICS.  
 For Toluene:  
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 203-625-9).  
 Canada: Listed on Canadian Domestic Substance List (DSL).  
 China: Listed on National Inventory.  
 Japan: Listed on National Inventory (ENCS).  
 Korea: Listed on National Inventory (KECI).  
 Philippines: Listed on National Inventory (PICCS).  
 Australia: Listed on AICS.

**Other Classifications**

**WHMIS (Canada)** CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).  
 CLASS D-2A: Material causing other toxic effects (VERY TOXIC).  
 D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC)**

R11- Highly flammable.	S7- Keep container tightly closed.
R36/38- Irritating to eyes and skin.	S16- Keep away from sources of ignition - No smoking.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
R63- Possible risk of harm to the unborn child.	S36/37- Wear suitable protective clothing and gloves.
R65- Harmful: may cause lung damage if swallowed.	S46- If swallowed, seek medical advice immediately and show this container or label.
R67-Vapors may cause drowsiness and dizziness.	S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**HMIS (U.S.A.)**

Health Hazard	2
Fire Hazard	3
Reactivity	0
Personal Protection	h

**National Fire Protection Association (U.S.A.)**

Health  Flammability  
 Reactivity  
 Specific hazard

**WHMIS (Canada) (Pictograms)**



**DSCL (Europe) (Pictograms)**



**TDG (Canada) (Pictograms)**



**ADR (Europe) (Pictograms)**



**Protective Equipment**



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

**Section 16. Other Information**

**MSDS Code** T3756

**References** Not available.

**Other Special Considerations** Not available.

Validated by Sonia Owen on 11/28/2011.

Verified by Sonia Owen.

Printed 11/28/2011.

CALL (310) 516-8000

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*