

# Material Safety Data Sheet

Validated by S.Bice on 2/2/2005.

Verified by S.Bice.

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## Section 1. Product Identification and Use

Product Name - Trade Name **891-7319 PERMATONE - OAK**

Supplier - Manufacturer **Chemcraft International Inc.,**  
3950 New Walkertown Rd.  
Winston-Salem, NC.  
U.S.A. 27051

Telephone (336) 723-1846 Fax (336) 724-7138

In case of Emergency 1-800-424-5571

### For Transport Emergency or After Hours

CHEMTREC 1-800-424-9300

Code 891-7319  
Synonym PERMATONE - OAK  
Chemical Name Not applicable.  
Chemical Family Synthetic polymer in organic solvent (Paint.)  
Chemical Formula Not applicable.  
Material Uses Coatings: Surface coatings and finishes  
Product Identification Number (PIN) 1263 PAINT

## Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	Exposure
				Limits
Acetone	67-64-1	60-100	ORAL (LD50): Acute: 5800 mg/kg [Rat]. DERMAL (LD50): Acute: 20000 mg/kg [Rabbit].	<b>ACGIH (Canada, 1997).</b> TWA: 500 ppm STEL: 750 ppm TWA: 1188 mg/m <sup>3</sup> STEL: 1782 mg/m <sup>3</sup>
Propylene glycol monomethyl ether	107-98-2	1-5	ORAL (LD50): Acute: 5660 mg/kg [Rat]. DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].	<b>ACGIH (Canada).</b> TWA: 100 ppm STEL: 150 ppm
n-Butyl acetate	123-86-4	10-30	ORAL (LD50): Acute: 14130 mg/kg [Rat]. 7100 mg/kg [Mouse]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit]. 8770 mg/kg [Guinea pig].	<b>OSHA (Canada).</b> TWA: 150 ppm STEL: 200 ppm <b>ACGIH (Canada, 2000).</b> TWA: 150 ppm STEL: 200 ppm

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

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### Section 3. Physical Data

<b>Physical State and Appearance</b>	Liquid.			
<b>Color</b>	Not available.	<b>Odor</b>	Not available.	<b>Taste</b> Not available.
<b>Molecular Weight</b>	Not applicable.			
<b>pH (1% soln/water)</b>	Neutral.			
<b>Boiling Point</b>	The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 73.49°C (164.3°F)			
<b>Melting Point</b>	May start to solidify at -77.9°C (-108.2°F) based on data for: Acetic Acid, Butyl Ester. Weighted average: -91.84°C (-133.3°F)			
<b>Critical Temperature</b>	Not available.			
<b>Specific Gravity</b>	0.81 (Water = 1)			
<b>Vapor Pressure</b>	The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 22.69 kPa (170.19 mm Hg) (at 20°C)			
<b>Vapor Density</b>	The highest known value is 4 (Air = 1) (Acetic Acid, Butyl Ester). Weighted average: 2.46 (Air = 1)			
<b>Volatility</b>	Not available.			
<b>Odor Threshold</b>	The lowest known value is 0.04 ppm (Acetic Acid, Butyl Ester) Weighted average: 1.59 ppm			
<b>Water/Oil Dist. Coeff.</b>	The product is more soluble in water.			
<b>Ionicity (in Water)</b>	Not available.			
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol.			
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol, diethyl ether. Partially soluble in n-octanol.			

### Section 4. Fire and Explosion Hazard

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in the presence of open flames, sparks and static discharge, of heat.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use alcohol-resistant foam or water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
<b>Special Remarks on Fire Hazards</b>	FLAMMABLE. (2-Propanone)
<b>Flash Points</b>	The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C. ). (2-Propanone)
<b>Flammable Limits</b>	The greatest known range is Lower: 1.6% Upper: 13.8% (2-Propanol, 1-methoxy-)
<b>Auto-Ignition Temperature</b>	The lowest known value is 287°C (548.6°F) (2-Propanol, 1-methoxy-).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Risk of explosion of the product in the presence of mechanical impact: Not available. Explosive in the presence of open flames, sparks and static discharge.
<b>Special Remarks on Explosion Hazards</b>	Not available.

## Section 5. Reactivity Data

<b>Stability</b>	The product is stable.
<b>Decomposition products</b>	Not available.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents. Slightly reactive to reactive with reducing agents, acids, alkalis.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Air sensitive. (1-Propanol, 2-methoxy-)
<b>Special Remarks on Corrosivity</b>	Not available.

## Section 6. Toxicological Properties

<b>Routes of Entry</b>	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 5660 mg/kg [Rat.]. (2-Propanol, 1-methoxy-). Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit]. (Acetic Acid, Butyl Ester). Acute toxicity of the vapor (LC50): 16000 ppm 4 hour/hours [Rat.]. (2-Propanone).
<b>Effects of Acute Exposure</b>	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering and itching. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanol, 1-methoxy-]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Classified None. for humans [2-Propanone]. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to blood, kidneys, lungs, the nervous system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Exposure can cause coughing, chest pains, difficulty in breathing. (2-Propanol, 1-methoxy-)
<b>Special Remarks on Other</b>	Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)
<b>Toxic Effects on Humans</b>	
<b>Exposure Limits</b>	Not available.

## Section 7. Preventive Measures

<b>Personal Protection</b>	Splash goggles. Synthetic apron. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Impervious gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Small Spill</b>	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill** 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 necessary.

**Waste Disposal** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Precautions** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/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. Keep away from incompatibles such as oxidizing agents.

**Storage** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

**TDG Classification** 3

**PIN** 1263 PAINT **PG:** II

**Special Provisions for Transport**

**Federal and State Regulations** New York release reporting list: Acetic Acid, Butyl Ester  
 Pennsylvania RTK: 2-Propanol, 1-methoxy-; Acetic Acid, Butyl Ester  
 Florida: Acetic Acid, Butyl Ester  
 Minnesota: Acetic Acid, Butyl Ester  
 Massachusetts RTK: 2-Propanol, 1-methoxy-; Acetic Acid, Butyl Ester  
 New Jersey: 2-Propanol, 1-methoxy-; Acetic Acid, Butyl Ester  
 TSCA 8(b) inventory: Acetic Acid, Butyl Ester  
 TSCA 5(e) substance consent order: Acetic Acid, Butyl Ester  
 TSCA 12(b) annual export notification: Acetic Acid, Butyl Ester  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic Acid, Butyl Ester  
 CERCLA: Hazardous substances.: 2-Propanone: 5000 lbs. (2268 kg); Acetic Acid, Butyl Ester;

**Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**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).**  
**Class D-2B: Material causing other toxic effects (Toxic).**

**HCS (U.S.A.)** Flammable liquid  
 Irritating material  
 Class: Target organ effects.

**Hazardous Material Information System (U.S.A)** **Health Hazard** \* 2  
**Fire Hazard** 3  
**Reactivity** 0  
**Personal Protection** H

**National Fire Protection Association (U.S.A)** **Health** 2  
**Fire Hazard** 2  
**Reactivity** 0  
**Specific Hazard**

## Section 8. 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 immediately.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Hazardous Skin Contact</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek 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 if symptoms appear.
<b>Hazardous Inhalation</b>	Move 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. Seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. Examine the lips and mouth to ascertain if the tissues are damaged, a possible indication that toxic material was ingested. The absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	Not available.

## Section 9. Preparation Information

<b>References</b>	-Manufacturers Material Safety Data Sheets.
<b>Other Special Considerations</b>	Not available.
<b>Related Information</b>	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

**Preparation Information Validated by S.Bice on 2/2/2005.**

**Verified by S.Bice.**

**Printed 12/1/2005.**

<b>Information Contact</b>	Prepared by the Health, Safety and Environment Department, Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON, Canada. Phone: 905 885-6388 Fax: 905 885-5097
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### Notice to Reader

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