

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **312-034 CHEMTONE DESERT OAK (312-034)**

Supplier - Manufacturer **Chemcraft International Inc.,**

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Canada L1A 3Z3

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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

**Code** 312-034  
**Synonym** CHEMTONE DESERT OAK (312-034)  
**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

### Exposure Limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Ethylbenzene	100-41-4	1-5	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	<b>ACGIH (Canada).</b> TWA: 100 ppm STEL: 125 ppm Not available.
m-Methyltoluene	108-38-3	5-10	ORAL (LD50): Acute: 6750 mg/kg [Rat.]. DERMAL (LD50): Acute: 12400 mg/kg [Rabbit.].	Not available.
o-Methyltoluene	95-47-6	1-5	ORAL (LD50): Acute: 3600 mg/kg [Rat.].	Not available.
p-Methyltoluene	106-42-3	1-5	ORAL (LD50): Acute: 4100 mg/kg [Rat.].	Not available.
Ethyl alcohol	64-17-5	1-5	ORAL (LD50): Acute: 7060 mg/kg [Rat.].	<b>OSHA (Canada).</b> TWA: 1000 ppm <b>ACGIH (Canada).</b> TWA: 1000 ppm
Ethyl Acetate	141-78-6	10-30	ORAL (LD50): Acute: 5600 mg/kg [Rat].	<b>OSHA (Canada).</b> TWA: 400 <b>ACGIH (Canada).</b> TWA: 400 ppm
Isopropanol	67-63-0	1-5	ORAL (LD50): Acute: 5045 mg/kg [Rat]. 4797 mg/kg [Dog]. 3600 mg/kg [Mouse]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit].	<b>ACGIH (Canada, 1994).</b> TWA: 400 ppm STEL: 500 ppm TWA: 983 mg/m <sup>3</sup> STEL: 1230 mg/m <sup>3</sup>
Methyl isobutyl ketone	108-10-1	1-5	ORAL (LD50): Acute: 21000 mg/kg [Rat]. 2850 mg/kg [Mouse]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].	<b>ACGIH (Canada, 1994).</b> TWA: 50 ppm STEL: 75 ppm TWA: 205 mg/m <sup>3</sup> STEL: 307 mg/m <sup>3</sup>
Methyl ethyl ketone	78-93-3	10-30	ORAL (LD50): Acute: 3400 mg/kg [Rat]. DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].	<b>ACGIH (Canada, 1993).</b> TWA: 590 mg/m <sup>3</sup> STEL: 585 mg/m <sup>3</sup> CEIL: 885 mg/m <sup>3</sup>
N-Methyl pyrrolidone	872-50-4	0.1-1	ORAL (LD50): Acute: 4200 mg/kg	Not available.

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Isobutyl alcohol	78-83-1	1-5	[Rat]. 5130 mg/kg [Mouse]. DERMAL (LD50): Acute: 8000 mg/kg [Rabbit]. ORAL (LD50): Acute: 2500 mg/kg [Rat.]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 4200 mg/kg [Rabbit].	<b>ACGIH (Canada, 1993).</b> TWA: 50 ppm
Potential additional emission of formaldehyde	50-00-0*	0.1-1	ORAL (LD50): Acute: 100 mg/kg [Rat]. DERMAL (LD50): Acute: 270 mg/kg [Rabbit].	<b>OSHA (Canada).</b> STEL: 2 ppm TWA: 0.75 ppm
Acetone	67-64-1	10-30	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>
Methyl alcohol	67-56-1	1-5	ORAL (LD50): Acute: 6200 mg/kg [Rat.]. 5600 mg/kg [Rat]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit].	<b>OSHA (Canada).</b> TWA: 200 ppm <b>ACGIH (Canada, 2000).</b> TWA: 200 ppm STEL: 250 ppm
Methyl propyl ketone	107-87-9	1-5	ORAL (LD50): Acute: 3730 mg/kg [Rat]. DERMAL (LD50): Acute: 6472 mg/kg [Rabbit].	Not available.

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.

### 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: 93.47°C (200.2°F)
<b>Melting Point</b>	May start to solidify at 13.3°C (55.9°F) based on data for: Benzene, 1,4-dimethyl-. Weighted average: -77.07°C (-106.7°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 0.87 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 24.8 kPa (186.2 mmHg) (at 20°C) (2-Propanone). Weighted average: 8.77 kPa (65.78 mmHg) (at 20°C)
<b>Vapor Density</b>	The highest known value is 3.7 (Air = 1) (Benzene, 1,3-dimethyl-). Weighted average: 2.77 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The lowest known value is 0.1 ppm (2-Pentanone, 4-methyl-) Weighted average: 18.94 ppm
<b>Water/Oil Dist. Coeff.</b>	The product is more soluble in octanol.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Partially dispersed in methanol, diethyl ether. Is not dispersed in cold water, hot water, n-octanol. See solubility in methanol, diethyl ether, n-octanol, acetone.
<b>Solubility</b>	Easily soluble in methanol, diethyl ether, acetone. Partially soluble in n-octanol. Insoluble in cold water, hot water.

## Section 4. Fire and Explosion Hazard

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames, sparks and static discharge. Flammable in presence of heat.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes. (Benzene, 1,3-dimethyl-)
<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: 6% UPPER: 36.5% (Methanol)
<b>Auto-Ignition Temperature</b>	The lowest known value is 416°C (780.8°F) (1-Propanol, 2-methyl-).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in 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 acids.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Incompatible with chlorinated compounds. (2-Propanol)
<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): 2500 mg/kg [Rat]. (1-Propanol, 2-methyl-). Acute dermal toxicity (LD50): 4200 mg/kg [Rabbit]. (1-Propanol, 2-methyl-). Acute toxicity of the gas (LC50): 2000 ppm 4 hour(s) [Rat]. (2-Butanone). Acute toxicity of the vapor (LC50): 4785 ppm 4 hour(s) [Rat]. (Benzene, 1,4-dimethyl-).
<b>Effects of Acute Exposure</b>	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), 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 A4 (Not classifiable for human or animal.) by ACGIH [Benzene, 1,3-dimethyl-]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Acetic Acid, Ethyl Ester]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [2-Propanol]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [2-Butanone]. Classified A5 (Not suspected for human.) by ACGIH [2-Pyrrolidinone, 1-methyl-]. Classified 4 (Probably not for human.) by IARC, None. by OSHA [Octadecanoic acid, zinc salt]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [Formaldehyde]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for human or animal.) by EPA [2-Propanone]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [Methanol]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Teratogenic NOAEL [89 ppm] [2-Pyrrolidinone, 1-methyl-]. Classified None. for human [2-Propanone]. <b>DEVELOPMENTAL TOXICITY:</b> Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethanol]. Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Formaldehyde].

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The substance is toxic to blood, kidneys, lungs, the nervous system, the reproductive system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

**Special Remarks on Toxicity to Animals**

Formaldehyde has caused cancer in test animals at high concentrations (5-15 ppm). (Formaldehyde)

**Special Remarks on Chronic Effects on Humans**

0347 Animal: embryotoxic, foetotoxic, passes through the placental barrier.  
0900 Detected in maternal milk in human.  
Narcotic effect; may cause nervous system disturbances. (Benzene, 1,3-dimethyl-)

**Special Remarks on Other Toxic Effects on Humans**

Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)

**Exposure Limits**

Not available.

## Section 7. Preventive Measures

**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.

**Engineering Controls**

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 proximal to the work-station location.

**Small Spill**

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**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 get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

**Waste Disposal**

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

**Precautions**

Keep locked up. 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**

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: Benzene, dimethyl-; 2-Pyrrolidinone, 1-methyl-; Isobutyl alcohol; Benzene, methyl-; 1-Propanol, 2-methyl-; Benzene, dimethyl-; Quartz (SiO<sub>2</sub>); Formaldehyde; Formaldehyde  
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: Isobutyl alcohol; 1-Propanol, 2-methyl-; Quartz (SiO<sub>2</sub>)  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Benzene; Isobutyl alcohol; 1-Propanol, 2-methyl-; Quartz (SiO<sub>2</sub>)  
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: Benzene; 2-Pyrrolidinone, 1-methyl-; Benzene, methyl-  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Benzene; Isobutyl alcohol; 1-Propanol, 2-methyl-; Formaldehyde; Formaldehyde  
Illinois toxic substances disclosure to employee act: Benzene, ethyl-  
New York release reporting list: Benzene, 1,3-dimethyl-; Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Methanol  
New York acutely hazardous substances: Benzene, ethyl-  
Rhode Island RTK hazardous substances: Benzene, ethyl-; Acetic Acid, Ethyl Ester; Methanol  
Pennsylvania RTK: Ethanol; Acetic Acid, Ethyl Ester; Isopropyl alcohol; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester; Acetic acid, 2-methylpropyl ester; Acetic acid, 2-methylpropyl ester; Methanol: (environmental hazard)  
Florida: Benzene, ethyl-; Benzene, 1,3-dimethyl-; Acetic Acid, Ethyl Ester; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester; Methanol

Minnesota: Benzene, ethyl-; Ethanol; Acetic Acid, Ethyl Ester; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester; Methanol  
 Massachusetts RTK: Benzene, ethyl-; Benzene, 1,3-dimethyl-; Ethanol; Acetic Acid, Ethyl Ester; Isopropyl alcohol; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester; Acetic acid, 2-methylpropyl ester; Acetic acid, 2-methylpropyl ester; Methanol  
 New Jersey: Benzene, ethyl-; Ethanol; Acetic Acid, Ethyl Ester; Isopropyl alcohol; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester; Acetic acid, 2-methylpropyl ester; Acetic acid, 2-methylpropyl ester; Methanol  
 TSCA 8(b) inventory: Benzene, dimethyl-; Ethanol; Acetic Acid, Ethyl Ester; Isopropyl alcohol; 2-Pyrrolidinone, 1-methyl-; Benzene, methyl-; Acetic Acid, Butyl Ester; 1-Butanol; Acetic acid, 2-methylpropyl ester; Benzene, dimethyl-; Aluminum oxide (Al2O3); N-Butyl Alcohol; Acetic acid, 2-methylpropyl ester; Formaldehyde  
 TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester  
 TSCA 8(d) H and S data reporting: Benzene, ethyl-  
 TSCA 12(b) one time export: 2-Pyrrolidinone, 1-methyl-  
 TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester; 2-Pyrrolidinone, 1-methyl-; Acetic Acid, Butyl Ester  
 SARA 302/304/311/312 extremely hazardous substances: Isopropyl alcohol; 1-Butanol; N-Butyl Alcohol; Formaldehyde  
 SARA 302/304/311/312 hazardous chemicals: Methanol  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzene, dimethyl-: Fire Hazard, Immediate (Acute) Health Hazard; Acetic Acid, Ethyl Ester: Fire Hazard, Immediate (Acute) Health Hazard; Methyl ethyl ketone: Fire Hazard, Immediate (Acute) Health Hazard; Isobutyl alcohol: Fire Hazard, Immediate (Acute) Health Hazard; Acetic Acid, Butyl Ester; 1-Propanol, 2-methyl-: Fire Hazard, Immediate (Acute) Health Hazard; Benzene, dimethyl-: Fire Hazard, Immediate (Acute) Health Hazard; Quartz (SiO2): Delayed (Chronic) Health Hazard; Acetic acid, 2-methylpropyl ester: Fire Hazard, Immediate (Acute) Health Hazard  
 SARA 313 toxic chemical notification and release reporting: Benzene, dimethyl- 19.1435%; Isopropyl alcohol 3.324%; 2-Pentanone, 4-methyl- 3.733%; Methyl ethyl ketone 10.5571%; Benzene, methyl- 0.27331%; 2-Propanone 12.4275%; Methanol 2.947%; 2-Pentanone, 4-methyl- 3.97613%  
 CERCLA: Hazardous substances.: Benzene, dimethyl-; Acetic Acid, Ethyl Ester; 2-Pentanone, 4-methyl-; Methyl ethyl ketone; 2-Pyrrolidinone, 1-methyl-; Isobutyl alcohol; Benzene, methyl-; Acetic Acid, Butyl Ester; 1-Propanol, 2-methyl-; 1-Butanol; Acetic acid, 2-methylpropyl ester; Benzene, dimethyl-; N-Butyl Alcohol; Acetic acid, 2-methylpropyl ester; 2-Propanone; Methanol; 2-Pentanone, 4-methyl-;

**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-1A: Material causing immediate and serious toxic effects (VERY TOXIC).**  
**Class D-2A: Material causing other toxic effects (VERY TOXIC).**  
**Class D-2B: Material causing other toxic effects (TOXIC).**

**HCS (U.S.A.)**  
 Class: Flammable liquid having a flash point lower than 37.8°C (100°F).  
 Class: Irritating substance.  
 Class: Target organ effects.

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	H
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

## 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. 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. Wash clothing before reuse. Thoroughly clean shoes 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 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>Hazardous 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>	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the 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.
<b>Preparation Information</b>	<b>Validated by C.M. Kelly on 9/19/2002.</b> <b>Verified by C.M. Kelly.</b> <b>Printed 4/23/2003.</b>
<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

### Notice to Reader

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