

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **740-043 RESLACK SEALER**

Supplier - Manufacturer **Chemcraft International Inc.,**  
155 Rose Glen Road North  
P.O. Box 458  
Port Hope, ON.  
Canada L1A 3Z3

Telephone (905) 885-6388 Fax (905) 885-5097

In case of Emergency (905) 885-6388, (800) 263-7951

### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 740-043

Synonym RESLACK SEALER

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	Exposure Limits	
			LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Styrene	100-42-5	10-30	ORAL (LD50): Acute: 2820 mg/kg [Rat].	TWA: 50 STEL: 100 CEIL: 600 (ppm) from OSHA (PEL) [United States] TWA: 50 STEL: 100 (ppb) from ACGIH (TLV) [United States]
Xylenes	1330-20-7	0.1-1	ORAL (LD50): Acute: 4300 mg/kg [Rat].	TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] [1992] TWA: 434 STEL: 651 (ppm) from ACGIH (TLV) [United States] [1992]
Ethyl acetate	141-78-6	10-30	ORAL (LD50): Acute: 5600 mg/kg [Rat]. 6100 mg/kg [Rat].	TWA: 400 (ppb) from ACGIH (TLV) [United States]
Zinc Stearate	557-05-1	1-5	Not available.	TWA: 10 CEIL: 20 (ppm) from ACGIH (TLV) [United States]
Propylene glycol phenyl ether	770-35-4	1-5	ORAL (LD50): Acute: 2830 mg/kg [Rat, male.]. 3730 mg/kg [Rat, female.].	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

Physical State and Appearance Liquid.

Color Not available. Odor Not available. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Not applicable.

Boiling Point The lowest known value is 77°C (170.6°F) (Acetic acid, ethyl ester). Weighted average: 121.99°C (251.6°F)

Continued on Next Page

<b>Melting Point</b>	May start to solidify at -31°C (-23.8°F) based on data for: Benzene, ethenyl-. Weighted average: -54.84°C (-66.7°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 1.01 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 9.7 kPa (@ 20°C) (Acetic acid, ethyl ester). Weighted average: 4.78 kPa (@ 20°C)
<b>Vapor Density</b>	The highest known value is 5.27 (Air = 1) (2-Propanol, 1-phenoxy-). Weighted average: 3.46 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The highest known value is 3.9 ppm (Acetic acid, ethyl ester) Weighted average: 1.82 ppm
<b>Water/Oil Dist. Coeff.</b>	The product is much more soluble in oil.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol, acetone.
<b>Solubility</b>	Easily soluble in methanol, n-octanol, acetone. Soluble in diethyl ether. 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 and sparks. Non-flammable in presence of shocks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes. (Acetic acid, ethyl ester)
<b>Flash Points</b>	The lowest known value is CLOSED CUP: -4.4°C (24.1°F). (Tagliabue.). OPEN CUP: -3°C (26.6°F). (Cleveland). (Acetic acid, ethyl ester)
<b>Flammable Limits</b>	The greatest known range is LOWER: 0.7% UPPER: 9.4% (2-Propanol, 1-phenoxy-)
<b>Auto-Ignition Temperature</b>	The lowest known value is 485°C (905°F) (Acetic acid, ethyl ester).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.
<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 and sparks.
<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>	Avoid contact with oxidizing agents. (Benzene, ethenyl-)
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents, acids, alkalis. Slightly reactive to reactive with moisture. Non-reactive with combustible materials. The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure.
<b>Corrosivity</b>	Not considered to be corrosive for metals and glass.
<b>Special Remarks on Reactivity</b>	High temperatures, inhibitor depletion, accidental impurities, exposure to radiation, oxidizers may cause spontaneous reaction generating heat and or pressure. Closed containers may rupture or explode during runaway polymerization. (Benzene, ethenyl-)

Continued on Next Page

**Special Remarks on Corrosivity** Not available.

## Section 6. Toxicological Properties

**Routes of Entry** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** Acute oral toxicity (LD50): 2820 mg/kg [Rat]. (Benzene, ethenyl-).

**Effects of Acute Exposure** Very hazardous in case of skin contact (irritant), of eye contact (irritant). Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified 2B (Possible for human.) by IARC [Benzene, ethenyl-]. Classified 4 (Probably not for human.) by IARC, 4 (No evidence.) by NTP, None. by OSHA [Silica amorphous, fumed, cryst.-free]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, 4 (No evidence.) by NTP, None. by OSHA [Acetic acid, ethyl ester]. Classified 4 (Probably not for human.) by IARC, 4 (No evidence.) by NTP, None. by OSHA [Octadecanoic acid, zinc salt]. Classified 4 (Probably not for human.) by IARC, 4 (No evidence.) by NTP, None. by OSHA [2-Propanol, 1-phenoxy-].  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.  
**DEVELOPMENTAL TOXICITY:** Not available.  
 The substance is toxic to blood, kidneys, the nervous system, liver.  
 Repeated or prolonged exposure to the substance can produce target organs damage.

**Special Remarks on Toxicity to Animals** In laboratory inhalation studies, birth defects, increased foetal lethality and delayed foetal development have been observed in offspring of female animals, exposed during pregnancy, with a threshold response level in the range of 545 ppm concentration in the air. (1-Propanol, 2-methoxy-, acetate)

**Special Remarks on Chronic Effects on Humans** Animal embryotoxic. Postnatal development injury in animal. Menstrual disorders in human. Human: passes the placental barrier, detected in maternal milk. (Benzene, ethenyl-)

**Special Remarks on Other Toxic Effects on Humans** Exposure can cause nausea, headache and vomiting. Material is irritating to mucous membranes and upper respiratory tract. (Acetic acid, ethyl ester)

**Exposure Limits**  
**Benzene, ethenyl-**  
 TWA: 50 STEL: 100 CEIL: 600 (ppm) from OSHA (PEL) [United States]  
 TWA: 50 STEL: 100 (ppb) from ACGIH (TLV) [United States]  
**Acetaldehyde**  
 STEL: 150 (ppm) from OSHA (PEL) [United States]  
 TWA: 180 (mg/m<sup>3</sup>) from OSHA (PEL) [United States]  
 CEIL: 25 (ppm) from ACGIH (TLV) [United States]  
**Solvent naphtha (petroleum), light arom.**  
 TWA: 25 (ppb) [1992]  
 TWA: 123 (ppm) from ACGIH (TLV) [United States]  
**Benzene, dimethyl-**  
 TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] [1992]  
 TWA: 434 STEL: 651 (ppm) from ACGIH (TLV) [United States] [1992]  
**Acetic acid, ethyl ester**  
 TWA: 400 (ppb) from ACGIH (TLV) [United States]  
**Octadecanoic acid, zinc salt**  
 TWA: 10 CEIL: 20 (ppm) from ACGIH (TLV) [United States]

Consult local authorities for acceptable exposure limits.

## 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 threshold limit value. 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.

<b>Large Spill</b>	Toxic flammable liquid, insoluble or very slightly soluble in water. 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
<b>Precautions</b>	Keep locked up. Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid shock and friction. Wear suitable protective clothing. 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, acids, alkalis.	
<b>Storage</b>	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).	
<b>TDG Classification</b>	Class 3: Flammable liquid.	
<b>PIN</b>	1263 PAINT	<b>PG: II</b>
<b>Special Provisions for Transport</b>	Not available.	
<b>Federal and State Regulations</b>	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: Acetaldehyde; Xylenes - mixed isomers; Quartz (SiO <sub>2</sub> ); Benzene, ethyl- 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: 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: Quartz (SiO <sub>2</sub> ) 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: Acetaldehyde Massachusetts RTK: Acetaldehyde TSCA 8(b) inventory: Xylenes - mixed isomers; Acetic acid, ethyl ester; Benzene, ethyl-; Ethyl Acetate SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Isobutyl alcohol: fire, delayed health hazard; Xylenes - mixed isomers: fire, immediate health hazard; Acetic acid, ethyl ester: fire, immediate health hazard; Quartz (SiO <sub>2</sub> ): delayed health hazard; Benzene, ethyl-: fire, immediate health hazard; Ethyl Acetate: fire, immediate health hazard SARA 313 toxic chemical notification and release reporting: Styrene 9.6443%; Xylenes - mixed isomers 0.15094%; Benzene, ethenyl- 21.844% CERCLA: Hazardous substances.: Isobutyl alcohol; Xylenes - mixed isomers; Acetic acid, ethyl ester; Ethyl Acetate;	
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	<b>CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).</b> <b>CLASS D-2A: Material causing other toxic effects (VERY TOXIC).</b> <b>CLASS D-2B: Material causing other toxic effects (TOXIC).</b> <b>CLASS F: Dangerously reactive material.</b>
	<b>HCS (U.S.A.)</b>	Class: Flammable liquid having a flash point lower than 37.8°C (100°F).
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	2
	<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>	2
	<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. Kelly on 6/7/2000.</b> <b>Verified by C. Kelly.</b> <b>Printed 9/18/2002.</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

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*