

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **390-891 CHEMSEAL**

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 390-891

Synonym CHEMSEAL

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Polymer.)

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	LC₅₀/LD₅₀	TLV/PEL
Toluene	108-88-3	15 - 30	ORAL (LD50): Acute: 2600 mg/kg [Rat]. DERMAL (LD50): Acute: 12210 mg/kg [Rabbit].	ACGIH (Canada, 1993). TWA: 50 ppm TWA: 188 mg/m ³
n-Butyl acetate	123-86-4	15 - 30	ORAL (LD50): Acute: 14130 mg/kg [Rat]. 7100 mg/kg [Mouse]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit]. 8770 mg/kg [Guinea pig].	OSHA (Canada). TWA: 150 ppm STEL: 200 ppm ACGIH (Canada, 2000). TWA: 150 ppm STEL: 200 ppm
Methyl alcohol	67-56-1	15 - 30	ORAL (LD50): Acute: 6200 mg/kg [Rat]. 5600 mg/kg [Rat]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit].	OSHA (Canada). TWA: 200 ppm ACGIH (Canada, 2000). TWA: 200 ppm STEL: 250 ppm
Xylenes	1330-20-7	5 - 15	ORAL (LD50): Acute: 4300 mg/kg [Rat].	ACGIH (Canada, 1992). TWA: 100 ppm STEL: 150 ppm TWA: 434 mg/m ³ STEL: 651 mg/m ³
Ethyl alcohol	64-17-5	1 - 5	ORAL (LD50): Acute: 7060 mg/kg [Rat].	OSHA (Canada). TWA: 1000 ppm ACGIH (Canada). TWA: 1000 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].	ACGIH (Canada, 1994). TWA: 400 ppm STEL: 500 ppm TWA: 983 mg/m ³ STEL: 1230 mg/m ³
Ethylbenzene	100-41-4	1 - 5	ORAL (LD50): Acute: 3500	ACGIH (Canada).

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Isobutyl alcohol	78-83-1	0.1 - 1	mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit]. ORAL (LD50): Acute: 2500 mg/kg [Rat.]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 4200 mg/kg [Rabbit.].	TWA: 100 ppm STEL: 125 ppm ACGIH (Canada, 1993). TWA: 50 ppm
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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)	Neutral.
Boiling Point	The lowest known value is 64.5°C (148.1°F) (Methanol). Weighted average: 110.92°C (231.7°F)
Melting Point	May start to solidify at -48°C (-54.4°F) based on data for: 1,2-Benzenedicarboxylic acid, di-C (8-10)-branched alkyl esters, C9-rich. Weighted average: -89.65°C (-129.4°F)
Critical Temperature	Not available.
Specific Gravity	Weighted average: 0.9 (Water = 1)
Vapor Pressure	The highest known value is 12.2 kPa (91.8 mm Hg) (at 20°C) (Methanol). Weighted average: 5.44 kPa (40.8 mm Hg) (at 20°C)
Vapor Density	The highest known value is 3.66 (Air = 1) (Benzene, ethyl-). Weighted average: 2.83 (Air = 1)
Volatility	Not available.
Odor Threshold	The lowest known value is 0.04 ppm (Acetic Acid, Butyl Ester) Weighted average: 19.6 ppm
Water/Oil Dist. Coeff.	The product is much more soluble in octanol.
Ionicity (in Water)	Not available.
Dispersion Properties	Partially dispersed in methanol, diethyl ether. Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol, acetone.
Solubility	Easily soluble in methanol, diethyl ether, acetone. Soluble in n-octanol. Insoluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames, sparks and static discharge. Flammable in presence of heat.
Fire Fighting Media and Instructions	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.
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back. (Benzene, methyl-)
Flash Points	The lowest known value is Closed cup: 6°C (42.8°F). (Tagliabue.). Open cup: 9°C (48.2°F). (Tagliabue). (Benzene, methyl-)
Flammable Limits	The greatest known range is Lower: 6% Upper: 36.5% (Methanol)
Auto-Ignition Temperature	The lowest known value is 407°C (764.6°F) (Acetic Acid, Butyl Ester).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Highly explosive in presence of open flames, sparks and static discharge. Explosive in presence of shocks.

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Special Remarks on Explosion Hazards Not available.

Section 5. Reactivity Data

Stability The product is stable.

Decomposition products Not available.

Conditions of Instability Not available.

Incompatibility with various substances Reactive with oxidizing agents, reducing agents, alkalis. Slightly reactive to reactive with organic materials, metals, acids.

Corrosivity Not available.

Special Remarks on Reactivity Incompatible with chlorinated compounds. (2-Propanol)

Special Remarks on Corrosivity Not available.

Section 6. Toxicological Properties

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

Toxicity to Animals 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 vapor (LC50): 8000 ppm 4 hour(s) [Rat.]. (Ethanol).

Effects of Acute Exposure Very hazardous in case of skin contact (permeator), of ingestion. Hazardous in case of inhalation.

Chronic Effects on Humans **CARCINOGENIC EFFECTS:** Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, None. by OSHA [Methanol]. 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, None. by OSHA [2-Propanol]. Classified 4 (Probably not for human.) by IARC, None. by OSHA [Octadecanoic acid, zinc salt]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Acetic Acid, Ethyl Ester].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: PROVEN [Ethanol]
The substance is toxic to blood, 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 Not available.

Special Remarks on Chronic Effects on Humans Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. (Benzene, methyl-)

Special Remarks on Other Toxic Effects on Humans Exposure can cause lung irritation, chest pain and oedema which may be fatal. (Benzene, methyl-)

Exposure Limits Not available.

Section 7. Preventive Measures

Personal Protection Safety glasses. 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 away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Take precautionary measures against electrostatic discharges. 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, reducing agents, alkalis.
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	<p>WARNING: This product contains chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Benzene; Benzene, methyl-</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause reproductive harm (male): Benzene</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.: Benzene; Benzene, methyl-</p> <p>WARNING: This product contains chemical(s) known to the State of California to cause cancer.: Benzene</p> <p>Illinois toxic substances disclosure to employee act: Benzene, ethyl-</p> <p>New York release reporting list: Methanol; Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester</p> <p>New York acutely hazardous substances: Benzene, ethyl-</p> <p>Rhode Island RTK hazardous substances: Methanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-</p> <p>Pennsylvania RTK: Methanol: (environmental hazard); Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Benzene, dimethyl-; Benzene, methyl-; Acetic Acid, Butyl Ester; Isopropyl alcohol</p> <p>Florida: Methanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Acetic Acid, Butyl Ester</p> <p>Minnesota: Methanol; Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Acetic Acid, Butyl Ester</p> <p>Massachusetts RTK: Methanol; Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Acetic Acid, Butyl Ester; Isopropyl alcohol</p> <p>New Jersey: Methanol; Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Benzene, methyl-; Acetic Acid, Butyl Ester; Isopropyl alcohol</p> <p>TSCA 8(b) inventory: Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Benzene, dimethyl-; Benzene, methyl-; Acetic Acid, Butyl Ester; Isopropyl alcohol</p> <p>TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester</p> <p>TSCA 8(d) H and S data reporting: Benzene, ethyl-</p> <p>TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester</p> <p>SARA 302/304/311/312 extremely hazardous substances: Isopropyl alcohol</p> <p>SARA 302/304/311/312 hazardous chemicals: Methanol</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzene, ethyl-: Fire hazard, Immediate (Acute) Health Hazard; Benzene, dimethyl-: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Benzene, methyl-: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Isobutyl alcohol: Fire hazard, Delayed (Chronic) Health Hazard; Acetic Acid, Butyl Ester; 2-Propanol: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard</p> <p>CERCLA: Hazardous substances.: Methanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-: 1000 lbs. (453.6 kg); Benzene, dimethyl-: 100 lbs. (45.36 kg); Benzene, methyl-: 1000 lbs. (453.6 kg); Isobutyl alcohol; Acetic Acid, Butyl Ester;</p>
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.)	Flammable liquid Irritating material Target organ effects
Hazardous Material Information System (U.S.A.)	Health Hazard	* 1
	Fire Hazard	3
	Reactivity	0
	Personal Protection	G
National Fire Protection Association (U.S.A.)	Health	0
	Fire Hazard	0
	Reactivity	0
	Specific Hazard	

Section 8. First Aid Measures

Eye Contact	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.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	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. WARNING: 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.
Ingestion	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.
Hazardous Ingestion	Not available.

Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	Not available.
Related Information	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 Florendo Tarnate on 9/16/2005. Verified by Florendo Tarnate. Printed 9/16/2005.
Information Contact	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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