

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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For Transport Emergency or After Hours

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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	LC ₅₀ /LD ₅₀	TLV/PEL
Toluene	108-88-3	15 - 30	ORAL (LD50): Acute: 2600 mg/kg [Rat]. DERMAL (LD50): Acute: 12210 mg/kg [Rabbit].	ACGIH (United States, 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 (United States). TWA: 150 ppm STEL: 200 ppm ACGIH (United States, 2000). TWA: 150 ppm STEL: 200 ppm NIOSH 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 (United States). TWA: 200 ppm ACGIH (United States, 2000). TWA: 200 ppm STEL: 250 ppm NIOSH (1997). TWA: 200 ppm STEL: 250 ppm TWA: 260 mg/m ³ STEL: 325 mg/m ³
Xylenes	1330-20-7	5 - 15	ORAL (LD50): Acute: 4300 mg/kg [Rat].	ACGIH (United States, 1992). TWA: 100 ppm STEL: 150 ppm TWA: 434 mg/m ³

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Ethyl alcohol	64-17-5	1 - 5	ORAL (LD50): Acute: 7060 mg/kg [Rat]. VAPOR (LC50): Acute: 8000 mg/l 4 hour/hours [Rat].	STEL: 651 mg/m ³ OSHA (United States). TWA: 1000 ppm ACGIH (United States). TWA: 1000 ppm NIOSH 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 (United States, 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 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	ACGIH (United States). TWA: 100 ppm STEL: 125 ppm NIOSH STEL: 125 ppm
Isobutyl alcohol	78-83-1	0.1 - 1	ORAL (LD50): Acute: 2500 mg/kg [Rat]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 4200 mg/kg [Rabbit].	ACGIH (United States, 1993). TWA: 50 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.

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 dispersible in methanol, diethyl ether. Not dispersible 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	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Highly flammable in the presence of the following materials or conditions: heat. Slightly flammable in the presence of the following materials or conditions: oxidizing materials.
Fire Fighting Media and Instructions	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition 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 the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
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	Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials, organic materials, metals, acids and alkalis. Non-reactive or compatible with the following materials: combustible materials and moisture.
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): 16000 ppm 8 hour/hours [Rat.]. (2-Propanol).
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 humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [Methanol]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanol]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [Octadecanoic acid, zinc salt]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) 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.

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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. 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.
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 close to the workstation location.
Small Spill	Absorb with an inert material and transfer the spilled material and absorbent to 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 allow water to enter container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike if necessary. 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/chemicals 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/chemicals known to the state of California to cause reproductive harm (male).: Benzene</p> <p>WARNING: This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene; Benzene, methyl-</p> <p>WARNING: This product contains chemical/chemicals 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</p>

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Acid, Butyl Ester; Isopropyl alcohol
 New Jersey: Methanol; Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Benzene, methyl-;
 Acetic Acid, Butyl Ester; Isopropyl alcohol
 TSCA 8(b) inventory: Ethanol; Acetic Acid, Ethyl Ester; Benzene, ethyl-; Benzene, dimethyl-;
 Benzene, methyl-; Acetic Acid, Butyl Ester; Isopropyl alcohol
 TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester
 TSCA 8(d) H and S data reporting: Benzene, ethyl-
 TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester
 SARA 302/304/311/312 extremely hazardous substances: Isopropyl alcohol
 SARA 302/304/311/312 hazardous chemicals: Methanol
 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
 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;

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

Other Classifications

WHMIS (Canada)	Class B-2: Flammable liquid
	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.)	Contains material which may cause cancer 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	1
	Fire Hazard	3
	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 In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.

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 if symptoms appear.

Hazardous Inhalation 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.

Ingestion 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.

Hazardous Ingestion Not available.

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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 A. Davis on 12/22/2005.**

Verified by A. Davis.

Printed 9/19/2006.

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