

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **488-015 PLASTOFIX 15***

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

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

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For Transport Emergency or After Hours

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Code 488-015

Synonym PLASTOFIX 15*

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

Name	CAS #	% by Weight	Exposure Limits	
			LC ₅₀ /LD ₅₀	TLV/PEL
Xylenes	1330-20-7	30-50		
n-Butyl alcohol	71-36-3	15-30		
Formaldehyde	50-00-0	0.1-1		

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 117.7°C (243.9°F) (1-Butanol). Weighted average: 131.61°C (268.9°F)

Melting Point May start to solidify at -89.5°C (-129.1°F) based on data for: 1-Butanol.

Critical Temperature Not available.

Specific Gravity Weighted average: 0.98 (Water = 1)

Vapor Pressure The highest known value is 6 mm of Hg (@ 20°C) (Benzene, dimethyl-). Weighted average: 5.47 mm of Hg (@ 20°C)

Vapor Density The highest known value is 3.7 (Air = 1) (Benzene, dimethyl-). Weighted average: 3.32 (Air = 1)

Volatility Not available.

Odor Threshold The highest known value is 0.3 ppm (Benzene, dimethyl-)

Water/Oil Dist. Coeff. The product is much more soluble in oil.

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Ionicity (in Water)	Not available.
Dispersion Properties	Is not dispersed in cold water, hot water, methanol. See solubility in methanol, diethyl ether, n-octanol, acetone.
Solubility	Easily soluble in methanol, diethyl ether, n-octanol, acetone. Insoluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks. Slightly flammable to flammable in presence of heat. Non-flammable in presence of oxidizing materials, of reducing materials, of combustible materials, of moisture.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use water spray or fog.
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back. (Benzene, dimethyl-)
Flash Points	The lowest known value is CLOSED CUP: 24°C (75.2°F). (Tagliabue.). OPEN CUP: 37.8°C (100°F). (Cleveland). (Benzene, dimethyl-)
Flammable Limits	The greatest known range is LOWER: 1.4% UPPER: 11.2% (1-Butanol)
Auto-Ignition Temperature	The lowest known value is 343°C (649.4°F) (1-Butanol).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks.
Special Remarks on Explosion Hazards	No additional remark.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	No additional remark.
Incompatibility with various substances	Highly reactive with oxidizing agents. Reactive with reducing agents, organic materials, metals, alkalis. Slightly reactive to reactive with acids.
Corrosivity	Not considered to be corrosive for metals and glass according to our database.
Special Remarks on Reactivity	Incompatible with hydrogen fluoride. (Silica gel, pptd., cryst.-free)
Special Remarks on Corrosivity	No additional remark.

Section 6. Toxicological Properties

Routes of Entry	Absorbed through skin. Eye contact. Inhalation.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 790 mg/kg [Rat]. (1-Butanol). Acute dermal toxicity (LD50): 3400 mg/kg [Rabbit]. (1-Butanol). Acute toxicity of the vapor (LC50): 6700 ppm 4 hour(s) [Rat.]. (Benzene, dimethyl-).
Effects of Acute Exposure	Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant, permeator), of inhalation, of inhalation (lung irritant). Slightly hazardous in case of ingestion. Non-corrosive for skin. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching.

Chronic Effects on Humans	Hazardous in case of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant). CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC, NONE KNOWN by NTP, NONE KNOWN by OSHA [1-Butanol]. Classified A2 (Suspected for human.) by ACGIH [Formaldehyde]. Classified 4 (Probably not for human.) by IARC, NONE KNOWN by NTP [Silica gel, pptd., cryst.-free]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: PROVEN [Formaldehyde] The substance is toxic to the nervous system, the reproductive system. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
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	Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritaion and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea and central nervous system depression. High level exposure to Xylene in laboratory animals, often at levels which are toxic to the mother, have affected the development of the fetus. The revelance of this to humans is not known. (Benzene, dimethyl-)
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. (Benzene, dimethyl-)
Exposure Limits	Benzene, dimethyl- TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [1992] TWA: 434 STEL: 651 (mg/m ³) from ACGIH [1992] 1-Butanol TWA: 50 CEIL: 50 (ppm) Formaldehyde TWA: 1 STEL: 2 (ppm) [1989] Silica gel, pptd., cryst.-free TWA: 10 (mg/m ³)

Consult local authorities for acceptable exposure limits.

Section 7. Preventive Measures

Personal Protection	Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust 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.
Large Spill	Poisonous 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. Eliminate all sources of ignition. 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.
Waste Disposal	Not available.
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/ vapour/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, reducing agents, organic materials, alkalis.
Storage	Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.
TDG Classification	TDG CLASS 3: Flammable liquid.

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PIN	1263 PAINT	PG: III
Special Provisions for Transport	089 International consignments to be packaged in accordance with ICAO or IMDG. 109 The consignor must determine legal limit. (Benzene, dimethyl-)	
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- ; TSCA inventory: Benzene, dimethyl-; 1-Butanol; Formaldehyde ; SARA 302/304/311/312 extremely hazardous substances: Benzene, dimethyl-; 1-Butanol; Formaldehyde ; SARA 313 toxic chemical notification and release reporting: Benzene, dimethyl-; 1-Butanol; Formaldehyde ; CERCLA hazardous substances: Benzene, dimethyl-; 1-Butanol ;	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	WHMIS (Canada)	WHMIS CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC). WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).
	HCS (U.S.A.)	HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F). HCS CLASS: Irritating substance. HCS 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	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 immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes 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.
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 immediate 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	No additional information.

Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	- Please note that this material will emit formaldehyde (CAS 50-00-0) during curing. Appropriate precautions should be taken to ensure that the levels of formaldehyde, along with all other components, are maintained below the TLVs. (Formaldehyde)
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. McLeod on 9/21/2000. Verified by A. McLeod. Printed 9/18/2002.
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

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.