

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **525-015 PERMASPRAY BLACK**

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 525-015  
Synonym PERMASPRAY BLACK  
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 <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Toluene	108-88-3	30 - 50	ORAL (LD50): Acute: 2600 mg/kg [Rat]. DERMAL (LD50): Acute: 12210 mg/kg [Rabbit].	<b>ACGIH (United States, 1993).</b> TWA: 50 ppm TWA: 188 mg/m <sup>3</sup>
Ethyl Acetate	141-78-6	30 - 50	ORAL (LD50): Acute: 5620 mg/kg [Rat]. 4100 mg/kg [Mouse]. 4935 mg/kg [Rabbit]. DERMAL (LD50): Acute: >20 mg/kg [Rabbit].	<b>ACGIH TLV (United States).</b> TWA: 400 ppm 8 hour/hours. <b>ACGIH (United States).</b> TWA: 400 ppm
Ethyl alcohol	64-17-5	15 - 30	ORAL (LD50): Acute: 7060 mg/kg [Rat]. VAPOR (LC50): Acute: 8000 mg/l 4 hour/hours [Rat].	<b>OSHA (United States).</b> TWA: 1000 ppm <b>ACGIH (United States).</b> TWA: 1000 ppm <b>NIOSH</b> TWA: 1000 ppm
n-Butyl acetate	123-86-4	5 - 15	ORAL (LD50): Acute: 14130 mg/kg [Rat]. 7100 mg/kg [Mouse]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit]. 8770 mg/kg [Guinea pig].	<b>OSHA (United States).</b> TWA: 150 ppm STEL: 200 ppm <b>ACGIH (United States, 2000).</b> TWA: 150 ppm STEL: 200 ppm <b>NIOSH</b> TWA: 150 ppm STEL: 200 ppm
Carbon black	1333-86-4	1 - 5	Not available.	<b>ACGIH (United States).</b> TWA: 3.5 mg/m <sup>3</sup> CEIL: 7 mg/m <sup>3</sup>

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.

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### 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 77°C (170.6°F) (Acetic Acid, Ethyl Ester). Weighted average: 93.19°C (199.7°F)				
<b>Melting Point</b>	May start to solidify at -77.9°C (-108.2°F) based on data for: Acetic Acid, Butyl Ester. Weighted average: -93.62°C (-136.5°F)				
<b>Critical Temperature</b>	Not available.				
<b>Specific Gravity</b>	Weighted average: 0.89 (Water = 1)				
<b>Vapor Pressure</b>	The highest known value is 9.7 kPa (73 mm Hg) (at 20°C) (Acetic Acid, Ethyl Ester). Weighted average: 6.06 kPa (45.45 mm Hg) (at 20°C)				
<b>Vapor Density</b>	The highest known value is 4 (Air = 1) (Acetic Acid, Butyl Ester). Weighted average: 2.84 (Air = 1)				
<b>Volatility</b>	Not available.				
<b>Odor Threshold</b>	The lowest known value is 0.04 ppm (Acetic Acid, Butyl Ester) Weighted average: 138.88 ppm				
<b>Water/Oil Dist. Coeff.</b>	The product is equally soluble in octanol and water.				
<b>Ionicity (in Water)</b>	Not available.				
<b>Dispersion Properties</b>	Partially dispersible in methanol, diethyl ether. See solubility in water, methanol, diethyl ether, n-octanol.				
<b>Solubility</b>	Easily soluble in methanol, diethyl ether. Soluble in cold water, hot water, n-octanol.				

### Section 4. Fire and Explosion Hazard

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	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.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use alcohol-resistant foam or water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. (Benzene, methyl-)
<b>Flash Points</b>	The lowest known value is Closed cup: -1°C (30.2°F). (Tagliabue). Open cup: -0.5°C (31.1°F). (Tagliabue). (Acetic Acid, Ethyl Ester)
<b>Flammable Limits</b>	The greatest known range is Lower: 3.3% Upper: 19% (Ethanol)
<b>Auto-Ignition Temperature</b>	The lowest known value is 407°C (764.6°F) (Acetic Acid, Butyl Ester).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
<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 or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis. Slightly reactive or incompatible with the following materials: organic materials and metals. Non-reactive or compatible with the following materials: moisture.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Not available.
<b>Special Remarks on Corrosivity</b>	Not available.

## Section 6. Toxicological Properties

<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 2600 mg/kg [Rat]. (Benzene, methyl-). Acute dermal toxicity (LD50): >20 mg/kg [Rabbit]. (Acetic Acid, Ethyl Ester). Acute toxicity of the gas (LC50): 45000 mg/m <sup>3</sup> 2 hour/hours [Mouse]. (Acetic Acid, Ethyl Ester). Acute toxicity of the vapor (LC50): 16000 ppm 6 hour/hours [Rat]. (Acetic Acid, Ethyl Ester).
<b>Effects of Acute Exposure</b>	Very hazardous in case of skin contact (permeator), of ingestion, of inhalation. Severe over-exposure can result in death.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Acetic Acid, Ethyl Ester]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [Carbon Black]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [Pentanedoic acid, dimethyl ester]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [Butanedoic acid, dimethyl ester]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [Hexanedoic acid, dimethyl ester]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> PROVEN [Ethanol] The substance is toxic to blood, the nervous system, the reproductive system. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. (Benzene, methyl-)
<b>Special Remarks on Other Toxic Effects on Humans</b>	Exposure can cause lung irritation, chest pain and oedema which may be fatal. (Benzene, methyl-)
<b>Exposure Limits</b>	Not available.

## Section 7. Preventive Measures

<b>Personal Protection</b>	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	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.

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<b>Engineering Controls</b>	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.	
<b>Small Spill</b>	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.	
<b>Large Spill</b>	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. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas. Dike if necessary. Call for assistance on disposal.	
<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. 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.	
<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>	3	
<b>PIN</b>	1263 PAINT	<b>PG: II</b>
<b>Special Provisions for Transport</b>	-	
<b>Federal and State Regulations</b>	<p><b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Carbon Black; Benzene, methyl-</p> <p><b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene, methyl-</p> <p><b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer.: Carbon Black</p> <p>New York release reporting list: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Methanol</p> <p>Rhode Island RTK hazardous substances: Acetic Acid, Ethyl Ester; Methanol</p> <p>Pennsylvania RTK: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Ethanol; Benzene, methyl-; Methanol: (environmental hazard)</p> <p>Florida: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Methanol</p> <p>Minnesota: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Ethanol; Methanol</p> <p>Massachusetts RTK: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Ethanol; Methanol</p> <p>New Jersey: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Ethanol; Benzene, methyl-; Methanol</p> <p>TSCA 8(b) inventory: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Ethanol; Benzene, methyl-</p> <p>TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester</p> <p>TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic Acid, Ethyl Ester: Fire hazard, Immediate (acute) health hazard; Acetic Acid, Butyl Ester; Benzene, methyl-: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard</p> <p>CERCLA: Hazardous substances.: Acetic Acid, Ethyl Ester; Acetic Acid, Butyl Ester; Benzene, methyl-: 1000 lbs. (453.6 kg); Methanol: 5000 lbs. (2268 kg);</p>	
<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>HCS (U.S.A.)</b>	<b>Class B-2: Flammable liquid</b> <b>Class D-2A: Material causing other toxic effects (Very toxic).</b> <b>Class D-2B: Material causing other toxic effects (Toxic).</b>  Contains material which may cause cancer Highly toxic Target organ effects
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 3
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0

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	<b>Personal Protection</b>	G
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	3
	<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. Cold water may be used. Get medical attention.
<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. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly 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 if symptoms appear.
<b>Hazardous Inhalation</b>	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.
<b>Ingestion</b>	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.
<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 K. William on 7/18/2006.</b> <b>Verified by K. William.</b> <b>Printed 12/8/2006.</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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