

Material Safety Data Sheet

Section 1. Product Identification and Use

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

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 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	LC₅₀/LD₅₀	TLV/PEL
Toluene	108-88-3	30 - 50	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
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].	ACGIH TLV (United States). TWA: 400 ppm 8 hour/hours. ACGIH (United States). 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].	OSHA (United States). TWA: 1000 ppm ACGIH (United States). TWA: 1000 ppm NIOSH 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].	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
Carbon black	1333-86-4	1 - 5	Not available.	ACGIH (United States). TWA: 3.5 mg/m ³ CEIL: 7 mg/m ³

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

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 77°C (170.6°F) (Acetic Acid, Ethyl Ester). Weighted average: 93.19°C (199.7°F)			
Melting Point	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)			
Critical Temperature	Not available.			
Specific Gravity	Weighted average: 0.89 (Water = 1)			
Vapor Pressure	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)			
Vapor Density	The highest known value is 4 (Air = 1) (Acetic Acid, Butyl Ester). Weighted average: 2.84 (Air = 1)			
Volatility	Not available.			
Odor Threshold	The lowest known value is 0.04 ppm (Acetic Acid, Butyl Ester) Weighted average: 138.88 ppm			
Water/Oil Dist. Coeff.	The product is equally soluble in octanol and water.			
Ionicity (in Water)	Not available.			
Dispersion Properties	Partially dispersible in methanol, diethyl ether. See solubility in water, methanol, diethyl ether, n-octanol.			
Solubility	Easily soluble in methanol, diethyl ether. Soluble in cold water, hot water, n-octanol.			

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 alcohol-resistant foam or 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: -1°C (30.2°F). (Tagliabue). Open cup: -0.5°C (31.1°F). (Tagliabue). (Acetic Acid, Ethyl Ester)
Flammable Limits	The greatest known range is Lower: 3.3% Upper: 19% (Ethanol)
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	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.
Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
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): 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 ³ 2 hour/hours [Mouse]. (Acetic Acid, Ethyl Ester). Acute toxicity of the vapor (LC50): 16000 ppm 6 hour/hours [Rat]. (Acetic Acid, Ethyl Ester).
Effects of Acute Exposure	Very hazardous in case of skin contact (permeator), of ingestion, of inhalation. Severe over-exposure can result in death.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 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]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: 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.
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	Exposure can cause lung irritation, chest pain and oedema which may be fatal. (Benzene, methyl-)
Toxic Effects on Humans	
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	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in 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. Use water spray to reduce vapors. 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 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.	
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.: Carbon Black; Benzene, methyl-</p> <p>WARNING: This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene, methyl-</p> <p>WARNING: 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>	
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-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 Highly toxic Target organ effects
Hazardous Material Information System (U.S.A.)	Health Hazard	* 3
	Fire Hazard	3
	Reactivity	0

	Personal Protection	G
National Fire Protection Association (U.S.A.)	Health	3
	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. Cold water may be used. Get medical attention.
Skin Contact	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.
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.

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 K. William on 7/18/2006. Verified by K. William. Printed 8/16/2006.
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

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