Product Name	Marsh Black Spray Stencil Ink	
CAS #	Mixture	
Product use	Spray Ink	
Manufacturer	MSSC, LLC 926 McDonough Lake Road, Unit E Collinsville, IL 62234 US Phone: (618) 343-1006 Fax: (618) 343-1016 Emergency Phone: (800) 424-9300 (USA) Emergency Phone: (703) 527-3887 (International)	
LEGEND HMIS/NFPA	Health * 2	
Severe4Serious3	Flammability 4	
Moderate 2	Physical Hazard 1	
Slight 1 Minimal 0	Personal Protection B	
	2. Hazards Identification	
Emergency overview	DANGER Extremely flammable. Contents under pressure. Containers may explode when heated Eye and skin irritant. May cause chronic toxic effects. Contains material which may cause cancer.	
Potential short term he	alth effects	
Routes of exposur	e Eye, Skin contact, Skin absorption, Inhalation.	
Eyes	May cause irritation. Contact with liquid may cause frostbite.	
Skin	May cause irritation. Contact with liquid may cause frostbite.	
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).	
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.	
Target organs	Eyes. Respiratory system. Skin.	
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.	
Signs and symptoms	<b>d symptoms</b> Symptoms may include redness, edema, drying, defatting and cracking of the ski Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.	

### **1. Product and Company Identification**

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Solvent naptha (petroleum), light aliphatic	64742-89-8	7 - 13
Acetone	67-64-1	30 - 60
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
Hydrous magnesium silicate	14807-96-6	1 - 5
2-Propanol, 1-methoxy-, acetate	108-65-6	0.5 - 1.5
Carbon black	1333-86-4	0.5 - 1.5
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1

4. First Aid Measures		
First aid procedures		
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.	
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. Clothing frozen to the skin should be thawed before being removed.	
Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.	
Ingestion	Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.	
Notes to physician	Symptoms may be delayed.	
General advice	Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.	

5	Fire	Fighting	Measures
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Flammable properties	Flammable by WHMIS/OSHA criteria. Containers may explode when heated.		
Extinguishing media			
Suitable extinguishing media	Carbon dioxide. Alcohol foam. Dry chemical. Water Fog.		
Unsuitable extinguishing media	Not available		
Protection of firefighters			
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.		
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.		
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Phosgene.		
Explosion data			
Sensitivity to mechanical impact	Not available		
Sensitivity to static discharge	Not available		
	6. Accidental Release Measures		

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. Never return spills in original containers for re-use. Should not be released into the environment.
	7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition. Store in a tightly closed container.

# 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
1,2,4-Trimethylbenzene	ACGIH-TLV	
	TWA: 25 ppm	
	OSHA-PEL	
	TWA: 25 ppm	
2-Propanol, 1-methoxy-, acetate	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Acetone	ACGIH-TLV	
	TWA: 500 ppm	
	STEL: 750 ppm	
	OSHA-PEL	
	TWA: 1000 ppm	
Butane	ACGIH-TLV	
	TWA: 1000 ppm	
	OSHA-PEL	
	Not established	
Carbon black	ACGIH-TLV	
	TWA: 3.5 mg/m3	
	OSHA-PEL	
	TWA: 3.5 mg/m3	
Hydrous magnesium silicate	ACGIH-TLV	
	TWA: 2 mg/m3	
	OSHA-PEL	
	Not established	
Propane	ACGIH-TLV	
	TWA: 1000 ppm	
	OSHA-PEL	
	TWA: 1000 ppm	
Solvent naptha (petroleum), light alipha		
	Not established	
	OSHA-PEL	
	Not established	
Engineering controls	Use only under good ventilation conditions or with respiratory protection.	
Personal protective equipment		
Eye / face protection	Safety goggles or glasses.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

### 9. Physical and Chemical Properties

Appearance	Aerosol.
Color	Black
Form	Spray
Odor	Solvent.
Odor threshold	Not available
Physical state	Liquid
рН	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not determined
Pour point	Not available
Evaporation rate	< 1 (Ether = 1)
Flammability limits in air, lower, % by volume	1.8
Flammability limits in air, upper, % by volume	12.8
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Auto-ignition temperature	Not determined
Percent volatile	Not available

# 10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Phosgene.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

### **11. Toxicological Information**

Component analysis - LC50	
Ingredient(s)	LC50
1,2,4-Trimethylbenzene	3661 ppm rat
2-Propanol, 1-methoxy-, acetate	Not available
Acetone	Not available
Butane	Not available
Carbon black	Not available
Hydrous magnesium silicate	Not available
Propane	Not available
Solvent naptha (petroleum), light aliphatic	1400 mg/l/4h rat

### **Component analysis - Oral LD50**

Ingredient(s)		LD50
1,2,4-Trimethylbenzene		3280 mg/kg rat
2-Propanol, 1-methoxy-, acetate		8532 mg/kg rat
Acetone		5800 mg/kg rat; 5340 mg/kg rabbit; 3000 mg/kg mouse; 2857 mg/kg human
Butane		Not available
Carbon black		8000 mg/kg rat
Hydrous magnesium silicate		Not available
Propane		Not available
Solvent naptha (petroleum), light aliphatic		5000 mg/kg rat
Effects of acute exposure		
Eye May cause irritation. C		ritation. Contact with liquid may cause frostbite.
Skin	Skin May cause irritation. Contact with liquid may cause frostbite.	
Inhalation Excessive intentional inhalation may cause respiratory tract irritation and		, , ,

nervous system effects (headache, dizziness). Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting. Non-hazardous by WHMIS/OSHA criteria. Sensitization

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Chronic effects	Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc) for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica.
Carcinogenicity	Contains a potential carcinogen.
ACGIH - Threshold Limit Values - Ca	urcinogens

ACGIH - Threshold Limit Valu	es - Carcinogens		
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen	
Carbon black	1333-86-4	A4 - Not Classifiable as a Human Carcinogen	
Hydrous magnesium silicate	14807-96-6	A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers)	
IARC - Group 2B (Possibly Ca	rcinogenic to Hum	ans)	
Carbon black	1333-86-4	Monograph 93 [in preparation]; Monograph 65 [1996]	
IARC - Group 3 (Not Classifial	ble)		
Hydrous magnesium silicate	14807-96-6	Monograph 93 [in preparation] (inhaled); Supplement 7 [1987]; Monograph 42 [1987]	
U.S California - Proposition	65 - Carcinogens L	list	
Carbon black	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)	
Mutagenicity	Non-haz	ardous by WHMIS/OSHA criteria.	
Reproductive effects	Non-haz	ardous by WHMIS/OSHA criteria.	
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.		
Synergistic Materials	Not avail	lable	

### **12. Ecological Information**

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.		
Ecotoxicity - Freshwater Algae Data			
Solvent naptha (petroleum), light aliphatic	64742-89-8	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L	
Ecotoxicity - Freshwater Fish Species Data			
1,2,4-Trimethylbenzene 2-Propanol, 1-methoxy-, acetate Acetone	95-63-6 108-65-6 67-64-1	96 Hr LC50 Pimephales promelas: 7.19-8.28 mg/L [flow-through] 96 Hr LC50 Pimephales promelas: 161 mg/L [static] 96 Hr LC50 Oncorhynchus mykiss: 4.74-6.33 ml/L; 96 Hr LC50 Pimephales promelas: 6210-8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L	
Hydrous magnesium silicate Ecotoxicity - Microtox Data	14807-96-6	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]	
Acetone Ecotoxicity - Water Flea Data	67-64-1	15 Min EC50 Photobacterium phosphoreum: 14500 mg/L	
1,2,4-Trimethylbenzene 2-Propanol, 1-methoxy-, acetate Acetone	95-63-6 108-65-6 67-64-1	48 Hr EC50 Daphnia magna: 6.14 mg/L 48 Hr EC50 Daphnia magna: >500 mg/L 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L	
Carbon black	1333-86-4	24 Hr EC50 Daphnia magna: >5600 mg/L	
Environmental effects	Harmful to	aquatic life.	

Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	cumulation / accumulation Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	
	13. Disposal Considerations	
Waste codes	Not available	
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal. Do not puncture or incinerate container.	
Waste from residues / unused products	Not available	
Contaminated packaging	Not available	
	14. Transport Information	

#### U.S. Department of Transportation (DOT)

Basic shipping requirements:Proper shipping nameCor

Consumer Commodity, ORM-D (Applicable to containers up to 1L)

 Transportation of Dangerous Goods (TDG - Canada)

 Basic shipping requirements:

 Proper shipping name

 Limited Quantity (Applicable to containers up to 1L)

# 15. Regulatory Information

Canadian federal regulations	Products	duct has been classified in accordance with the hazard criteria of the Controlled Regulations and the MSDS contains all the information required by the d Products Regulations.
Canada - CEPA - High Priority C	hemicals as Iden	tified by DSL Categorization
Butane Carbon black <b>Canada - WHMIS - Ingredient D</b> i	106-97-8 1333-86-4 sclosure List	Batch 4, published November 17, 2007 Batch 12, published September 26, 2009
1,2,4-Trimethylbenzene Acetone Butane Carbon black	95-63-6 67-64-1 106-97-8 1333-86-4	0.1 % 1 % 1 % 1 %
US Federal regulations	Commun	duct is a "Hazardous Chemical" as defined by the OSHA Hazard nication Standard, 29 CFR 1910.1200. onents are on the U.S. EPA TSCA Inventory List.
U.S CERCLA/SARA - Hazardo	us Substances a	nd their Reportable Quantities
Acetone U.S CERCLA/SARA - Section	67-64-1 <b>313 - Emission R</b> e	5000 Lb final RQ; 2270 kg final RQ eporting
1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
<b>Occupational Safety and Health</b>	Administratio	n (OSHA)
29 CFR 1910.1200 hazardou chemical	<b>is</b> Yes	
CERCLA (Superfund) reportabl	e quantity	
2-Propanone: 5000.0000 Benzene, 1,3-dimethyl-: 1000 Benzene, (1-methylethyl)-: 50 Benzene, ethyl-: 1000.0000 Benzene, 1,2-dimethyl-: 1000	000.000	
Superfund Amendments and R	eauthorization	Act of 1986 (SARA)
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous che	mical Yes	
Clean Air Act (CAA)	Not available	
Clean Water Act (CWA)	Not available	
WHMIS status	Controlled	
WHMIS classification	Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 2A, 2B	
WHMIS labeling		
	)	

ntory name		
Propane	74-98-6	Toxic; Flammable
Hydrous magnesium silicate	14807-96-6	Toxic (powder or fibrous)
Carbon black	1333-86-4	Toxic
Butane	106-97-8	Toxic; Flammable
Acetone	67-64-1	Toxic; Flammable
1,2,4-Trimethylbenzene	95-63-6	Toxic
U.S Rhode Island - Hazardo		
Propane	74-98-6	Present
Hydrous magnesium silicate	14807-96-6	Present
Carbon black	1333-86-4	Present
Butane	106-97-8	Present
Acetone	95-63-6 67-64-1	Environmental hazard
1,2,4-Trimethylbenzene	95-63-6	Environmental hazard
U.S Pennsylvania - RTK (Ri		
Acetone	67-64-1	5000 Lb RQ (air); 1 lb RQ (land/water)
•		- List of Hazardous Substances
Propane	74-98-6	sn 1594
Hydrous magnesium silicate	14807-96-6	sn 1773
Carbon black	1333-86-4	sn 0342
Butane	106-97-8	sn 0273
1,2,4-Trimethylbenzene Acetone	95-63-6 67-64-1	sn 2716 sn 0006
	95-63-6	sn 2716
U.S New Jersey - Right to K		
Propane	74-98-6	Simple asphyxiant
Hydrous magnesium silicate	14807-96-6	Present (fibrous, nonasbestiform, and respirable)
Carbon black	1333-86-4	Carcinogen
Butane	106-97-8	Present
1,2,4-Trimethylbenzene Acetone	95-63-6 67-64-1	Present
	95-63-6	Present
U.S Minnesota - Hazardous		i fostit
Hydrous magnesium silicate Propane	74-98-6	substantially generated through use of the product) Present
Hydrous magnesium silicata	14807-96-6	substantially generated through use of the product) Present (exempt when encapsulated or if particulates are not present and cannot be
Carbon black	1333-86-4	Present (exempt when encapsulated or if particulates are not present and cannot be
Butane	106-97-8	Present
Acetone	67-64-1	Present
1,2,4-Trimethylbenzene	95-63-6	Present
U.S Massachusetts - Right		
Acetone	67-64-1	5000 Lb final RQ; 2270 kg final RQ
U.S Louisiana - Reportable	-	
Carbon black	1333-86-4	Present
1,2,4-Trimethylbenzene	95-63-6	Present
Carbon black U.S Illinois - Toxic Air Conta	1333-86-4	IARC Group 2B Carcinogen (extracts)
U.S Illinois - Toxic Air Conta	-	
Hydrous magnesium silicate	14807-96-6	Present (exempt except when inhalable dust is present or can be generated)
Carbon black	1333-86-4	Present (exempt when in form where exposure to dust cannot occur)
Butane	106-97-8	Present
Acetone	67-64-1	Present
Acatopa		

Country(s) or region	Inventory name On in	ventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
A "Yes" indicates that all components	of this product comply with the inventory requirements administered by the governing cou	untry(s)

### **16. Other Information**

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021
Other information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.