Product Name	Marsh Blue 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		
Severe 4 Serious 3 Madazata 2	Flammability 4 Physical Hazard 0		
Moderate 2 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 health e	ffects		
Routes of exposure	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. Skin. Respiratory system.		
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.		
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. 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
Hydrous magnesium silicate	14807-96-6	3 - 7
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
2-Propanol, 1-methoxy-, acetate	108-65-6	1 - 5
Titanium oxide	13463-67-7	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	Eiro	Eighting	Moneuroe
J.	гпе	FIGHTIN	Measures

Flammable properties	Flammable by WHMIS/OSHA criteria. Containers may explode when heated.	
Extinguishing media		
Suitable extinguishing media	Carbon dioxide. Alcohol foam. Dry chemical. Foam. 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.

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 120°F (49°C). 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	
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	atic ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Titanium oxide	ACGIH-TLV	
	TWA: 10 mg/m3	
	OSHA-PEL	
	TWA: 15 mg/m3	
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	Blue.
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 available
Viscosity	Not available
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°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
Hydrous magnesium silicate	Not available
Propane	Not available
Solvent naptha (petroleum), light aliphatic	1400 mg/l/4h rat
Titanium oxide	Not available

Component analysis - Oral LD50

Ingredient(s)		LD50
,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
Hydrous magnesium silicate		Not available
Propane		Not available
Solvent naptha (petroleum), light	aliphatic	5000 mg/kg rat
Titanium oxide		24000 mg/kg rat
Effects of acute exposure		
Eye	May cause irritation. Contact with liquid may cause frostbite.	
Skin	May caus	se 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.	
Sensitization	Non-hazardous by WHMIS/OSHA criteria.	
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	s - Carcinogens	
Acetone Hydrous magnesium silicate Titanium oxide IARC - Group 2B (Possibly Care	67-64-1 14807-96-6 13463-67-7	 A4 - Not Classifiable as a Human Carcinogen A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers) A4 - Not Classifiable as a Human Carcinogen
Titanium oxide IARC - Group 3 (Not Classifiabl	13463-67-7 Monograph 93 [in preparation]; Monograph 47 [1989]	
Hydrous magnesium silicate	14807-96-6	Monograph 93 [in preparation] (inhaled); Supplement 7 [1987]; Monograph 42 [1987]
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.	
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.	
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.	
Synergistic Materials	Not available	

12. Ecological Information

Ecotoxicity	Components concerns.	s of this product have been identified as having potential environmental
Ecotoxicity - Freshwater Algae I	Data	
Solvent naptha (petroleum), light aliphatic	64742-89-8	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L
Ecotoxicity - Freshwater Fish Sp	pecies 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
Environmental effects Aquatic toxicity Persistence / degradability	Not available Not available Not available	- e

Bioaccumulation / 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 n 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 name 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 Re	t has been classified in accordance with the hazard criteria of the Controlled egulations and the MSDS contains all the information required by the Products Regulations.
Canada - CEPA - High Priority Che	micals as Identifi	ed by DSL Categorization
Butane	106-97-8	Batch 4, published November 17, 2007
Canada - WHMIS - Ingredient Discl	losure List	
1,2,4-Trimethylbenzene	95-63-6	0.1 %
Acetone	67-64-1	1 %
Butane	106-97-8	1 %

Acetone

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

67-64-1 5000 Lb final RQ; 2270 kg final RQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

1,2,4-Trimethylbenzene 95-63-6 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes chemical

CERCLA (Superfund) reportable quantity

2-Propanone: 5000.0000 Benzene, ethyl-: 1000.0000 Benzene, 1,3-dimethyl-: 1000.0000 Benzene, 1,2-dimethyl-: 1000.0000 Benzene, (1-methylethyl)-: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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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 chemical	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



	to cause cancer.
n 339 - Director's I	ist of Hazardous Substances
95-63-6	[present]
67-64-1	Present
106-97-8	Present
14807-96-6 ninants	Present (exempt except when inhalable dust is present or can be generated)
95-63-6	Present
	5000 Lb final RQ; 2270 kg final RQ
	Present
	Present
	Present
14807-96-6	Present (exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product)
74-98-6	Present
13463-67-7	Present
ubstance List	
95-63-6	Present
67-64-1	Present
106-97-8	Present
14807-96-6	Present (fibrous, nonasbestiform, and respirable)
	Simple asphyxiant
	Present (dust)
	sn 2716
	sn 0006
	sn 0273
	sn 1773 sn 1594
	sn 1861
	- List of Hazardous Substances
	5000 Lb RQ (air); 1 lb RQ (land/water)
-	Environmental hazard
67-64-1	Environmental hazard
106-97-8	Present
14807-96-6	Present
74-98-6	Present
13463-67-7	Present
Substance List	
95-63-6	Toxic
67-64-1	Toxic; Flammable
	Toxic; Flammable
	Toxic (powder or fibrous) Toxic; Flammable
	Toxic, Flammable
10-00-01-1	
Inventory	/ name On inventory (yes/no)*
Domestic	Substances List (DSL) Yes
Non-Dom	estic Substances List (NDSL) No
	ostances Control Act (TSCA) Inventory Yes
	comply with the inventory requirements administered by the governing country(s)
	67-64-1 106-97-8 14807-96-6 inants 95-63-6 95-63-6 67-64-1 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 ubstance List 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 ow Hazardous Sut 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 Releases Part 597 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 5 ubstance List 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 5 ubstance List 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 5 ubstance List 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 5 ubstance List 95-63-6 67-64-1 106-97-8 14807-96-6 74-98-6 13463-67-7 Unventory Domestic Non-Dom Toxic Sub

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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