### **MATERIAL SAFETY DATA SHEET**

### 1. Product and Company Identification

Product Name Marsh Black Spray Stencil Ink

CAS # Mixture
Product use Spray Ink

Manufacturer Marsh Shipping Supply Company, LLC

926 McDonough Lake Road, Unit E

Collinsville, IL 62234 US Phone (618) 343-1006 Fax (618) 343-1016

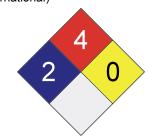
Emergency Phone (800) 424-9300 (USA) Emergency Phone (703) 527-3887 (International)

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1

Minimal





## 2. Hazards Identification

Emergency overview DANGER

0

Extremely flammable. Contents under pressure. Containers may explode when heated.

EYE AND SKIN IRRITANT. May cause chronic toxic effects.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

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.

# 3. Composition / Information on Ingredients

CAS#	Percent
67-64-1	30 - 60
142-82-5	3 - 7
106-97-8	10 - 30
74-98-6	10 - 30
14807-96-6	1 - 5
108-65-6	0.5 - 1.5
110-82-7	0.5 - 1.5
64742-95-6	0.5 - 1.5
	67-64-1 142-82-5 106-97-8 74-98-6 14807-96-6 108-65-6 110-82-7

### 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.

Notes to physician Symptoms may be delayed. General advice 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. 5. Fire Fighting Measures Flammable by WHMIS/OSHA criteria. Containers may explode when heated. Flammable properties Extinguishing media Suitable extinguishing media Carbon dioxide. Alcohol foam. Dry chemical. Water Fog. Not available Unsuitable extinguishing media Protection of firefighters Specific hazards arising from 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. the chemical Firefighters should wear full protective clothing including self contained breathing Protective equipment for firefighters apparatus. 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Before attempting clean up, refer to hazard data given above. Remove sources of Methods for cleaning up 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. Other information Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered labelled containers. Prevent large spills from entering sewers or waterways. 7. Handling and Storage Handling Use good industrial hygiene practices in handling this material.

convulsing.

Ingestion

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

Storage Keep out of reach of children. Do not store at temperatures above 49 °C. Keep away from heat, open flames or other sources of ignition. Store in a tightly closed container.

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8. Exposure Controls / Personal Protection			
Exposure limits			
Ingredient(s)	Exposure Limits		
2-Propanol, 1-methoxy-, acetate	ACGIH-TLV		
	Not established		
	OSHA-PEL		
	Not established		
Acetone	ACGIH-TLV		
	TWA: 500 ppm		
	STEL: 750 ppm		
	OSHA-PEL  Not established		
Butane			
Butane	ACGIH-TLV TWA: 1000 ppm		
	OSHA-PEL		
	Not established		
Cyclohexane	ACGIH-TLV		
Cyclonexane	TWA: 100 ppm		
	OSHA-PEL		
	TWA: 300 ppm		
Heptane (n-)	ACGIH-TLV		
,	TWA: 1635 mg/m3		
	STEL: 500 ppm		
	OSHA-PEL		
	TWA: 500 ppm		
Hydrous magnesium silicate	ACGIH-TLV		
	TWA: 2 mg/m3		
	OSHA-PEL		
	TWA: 2 mg/m3		
Propane	ACGIH-TLV		
	TWA: 1000 ppm		
	OSHA-PEL		
	TWA: 1000 ppm		
Solvent naphtha (petroleum), light arom	atic ACGIH-TLV		
	TWA: 50 ppm		
	OSHA-PEL		
	Not established		
Engineering controls Personal protective equipment	Use only under good ventilation conditions or with respiratory protection.		
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 and face before breaks and immediately after handling the product.		
9	Physical & Chemical Properties		
-	Aerosol.		
Appearance	Aerosoi.		

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Black.

Color

Form Spray
Odor Solvent.
Odor threshold Not available
Physical state Liquid

pH Not available
Melting point Not available
Freezing point Not available
Boiling point Not available
Flash point -104.4 °C (-156 °F)
Evaporation rate < 1 (Ether = 1)

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

Component analysis - LC50

by volume

12.8

Vapor pressureNot availableVapor densityNot availableSpecific gravityNot availableOctanol/water coefficientNot availableAuto-ignition temperatureNot availablePercent volatileNot available

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C. Do not mix with other

chemicals.

**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

Ingredient(s)	LC50
2-Propanol, 1-methoxy-, acetate	Not available
Acetone	> 16000 mg/m3 rat
Butane	658 mg/m3 rat
Cyclohexane	Not available
Heptane (n-)	25000 ppm rat
Hydrous magnesium silicate	Not available
Propane	Not available
Solvent naphtha (petroleum), light aromatic	> 10.2 Mg/L rat
Component analysis - Oral LD50	
Ingredient(s)	LD50
2-Propanol, 1-methoxy-, acetate	8532 mg/kg rat
Acetone	5800 mg/kg rat
Butane	Not available
Cyclohexane	8000 mg/kg rat
Heptane (n-)	> 15000 mg/kg rat
Hydrous magnesium silicate	Not available
Propane	Not available
Solvent naphtha (petroleum), light aromatic	4700 mg/kg rat

Effects of acute exposure

Eye 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.

Sensitization Non-hazardous by WHMIS/OSHA criteria. Chronic effects Prolonged exposure may cause chronic effects. Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity Non-hazardous by WHMIS/OSHA criteria. Mutagenicity Reproductive effects Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

## 12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity** 

concerns.

**Environmental effects** Harmful to aquatic life.

Not available Aquatic toxicity Persistence / degradability Not available Not available Bioaccumulation / accumulation Not available Partition coefficient Not available Mobility in environmental media Chemical fate information 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

Not available Contaminated packaging

## 14. Transport Information

Department of Transportation (DOT)

Basic shipping requirements:

Consumer Commodity, ORM-D (Applicable to Proper shipping name

containers up to 1L)

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:

Proper shipping name Consumer Commodity (Applicable to containers up to

1L)

## 15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

IATA: Shipping Name: Aerosols,

IMDG Shipping Name: Aerosols, Class 2,

flammable, Class 2.1, UN1950

UN1950, EMS No. F-D, S-U

Controlled Products Regulations.

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

Yes

**CERCLA (Superfund) reportable quantity** 

2-Propanone: 5000.0000

Superfund Amendments and Reauthorization 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

Nο

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Food and Drug Administration (FDA)

WHMIS status

Not available

Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division

2A, 2B

#### WHMIS labeling







### State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### Massachusetts - Right To Know List

 Acetone
 67-64-1
 Present

 Butane
 106-97-8
 Present

 Cyclohexane
 110-82-7
 Present

 Heptane (n-)
 142-82-5
 Present

Hydrous magnesium silicate 14807-96-6 Present; Exempt when encapsulated or if particulates are not present and cannot be

substantially generated through use of the product.

Propane 74-98-6 Present

Minnesota - Hazardous Substance List

Acetone67-64-1PresentButane106-97-8PresentCyclohexane110-82-7PresentHeptane (n-)142-82-5PresentHydrous magnesium silicate14807-96-6Present

Propane 74-98-6 Simple asphyxiant

#### New Jersey - Right to Know Hazardous Substance List

sn 0006 Acetone 67-64-1 106-97-8 sn 0273 Butane sn 0565 Cyclohexane 110-82-7 142-82-5 sn 1339 Heptane (n-) 14807-96-6 sn 1773 Hydrous magnesium silicate Propane 74-98-6 sn 1594

Pennsylvania - RTK (Right to Know) List

Acetone 67-64-1 Environmental hazard

Butane 106-97-8 Present

Cyclohexane 110-82-7 Environmental hazard

Heptane (n-) 142-82-5 Present Hydrous magnesium silicate 14807-96-6 Present Propane 74-98-6 Present

#### Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(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

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 Issue date
 29-Jul-2005

 Effective date
 01-Jul-2005

 Expiry date
 01-Jul-2008

Prepared by Dell Tech Laboratories Ltd. (519) 858-5021