### MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product Name Marsh Red Spray Stencil Ink

CAS # Mixture
Product use Spray Ink
Manufacturer MSSC, LLC

926 McDonough Lake Road, Unit E

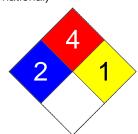
Collinsville, IL 62234 US Phone: (618) 343-1006 Fax: (618) 343-1016

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

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





### 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.

Potential short term health effects

**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.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Solvent naptha (petroleum), light aliphatic	64742-89-8	7 - 13
Hydrous magnesium silicate	14807-96-6	3 - 7
Acetone	67-64-1	15 - 40
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
2-Propanol, 1-methoxy-, acetate	108-65-6	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.

If symptoms develop, move victim to fresh air, If symptoms persist, obtain medical Inhalation

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth Ingestion

if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

General advice Do not puncture or incinerate container. Keep away from sources of ignition. No

Symptoms may be delayed.

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

Flammable by WHMIS/OSHA criteria. Containers may explode when heated. Flammable properties

Extinguishing media

Carbon dioxide. Alcohol foam. Dry chemical. Foam. Water Fog. Suitable extinguishing media

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 should wear full protective clothing including self contained breathing

May include and are not limited to: Oxides of carbon. Phosgene.

firefighters

apparatus.

Hazardous combustion products

**Explosion data** 

impact

Sensitivity to mechanical

Not available

Sensitivity to static discharge

Not available

### 6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material Personal precautions

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.

# 7. Handling and Storage

Handling

Storage

Use good industrial hygiene practices in handling this material.

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.

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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 aliphatic	ACGIH-TLV
	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 Red

Form Spray

Odor Solvent.

Odor threshold Not available

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Physical state Liquid

pH 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

**.%** 12.8

Flammability limits in air, upper, %

by volume

Vapor pressure

Vapor density

Not available

Specific gravity

Not available

Octanol/water coefficient

Auto-ignition temperature

Viscosity

Not available

Not available

Not available

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

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
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
Hydrous magnesium silicate	Not available
Propane	Not available
Solvent naptha (petroleum), light aliphatic	5000 mg/kg rat
Effects of acute exposure	

Effects of acute exposure

Component analysis - LC50

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).

Not a normal route of exposure. May cause stomach distress, nausea or vomiting. Ingestion

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 Non-hazardous by WHMIS/OSHA criteria.

**ACGIH - Threshold Limit Values - Carcinogens** 

Acetone 67-64-1 A4 - Not Classifiable as a Human Carcinogen

14807-96-6 Hydrous magnesium silicate A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers)

IARC - Group 3 (Not Classifiable)

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.

Not available Synergistic Materials

## 12. Ecological Information

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

**Ecotoxicity - Freshwater Algae Data** 

Solvent naptha (petroleum), light 64742-89-8 72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L

aliphatic

**Ecotoxicity - Freshwater Fish Species Data** 

1,2,4-Trimethylbenzene 95-63-6 96 Hr LC50 Pimephales promelas: 7.19-8.28 mg/L [flow-through]

96 Hr LC50 Pimephales promelas: 161 mg/L [static] 2-Propanol, 1-methoxy-, acetate 108-65-6

96 Hr LC50 Oncorhynchus mykiss: 4.74-6.33 ml/L; 96 Hr LC50 Pimephales promelas: 67-64-1

6210-8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L

14807-96-6 96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static] Hydrous magnesium silicate

**Ecotoxicity - Microtox Data** 

Acetone 67-64-1 15 Min EC50 Photobacterium phosphoreum: 14500 mg/L

**Ecotoxicity - Water Flea Data** 

1,2,4-Trimethylbenzene 95-63-6 48 Hr EC50 Daphnia magna: 6.14 mg/L 2-Propanol, 1-methoxy-, acetate 108-65-6 48 Hr EC50 Daphnia magna: >500 mg/L

Acetone 67-64-1 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna:

12600 - 12700 mg/L

**Environmental effects** Harmful to aquatic life.

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

# 13. Disposal Considerations

Not available Waste codes

**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

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# 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

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 Controlled Products Regulations.

#### Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Butane 106-97-8 Batch 4, published November 17, 2007

Canada - WHMIS - Ingredient Disclosure List

 1,2,4-Trimethylbenzene
 95-63-6
 0.1 %

 Acetone
 67-64-1
 1 %

 Butane
 106-97-8
 1 %

**US Federal regulations**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

Acetone 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)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

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 trace amounts of a chemical known to the State of

California to cause cancer.

#### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

 1,2,4-Trimethylbenzene
 95-63-6
 [present]

 Acetone
 67-64-1
 Present

 Butane
 106-97-8
 Present

Hydrous magnesium silicate 14807-96-6 Present (exempt except when inhalable dust is present or can be generated)

U.S. - Illinois - Toxic Air Contaminants
1,2,4-Trimethylbenzene 95-63-6

U.S. - Louisiana - Reportable Quantity List for Pollutants

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

U.S. - Massachusetts - Right To Know List

1,2,4-Trimethylbenzene95-63-6PresentAcetone67-64-1PresentButane106-97-8Present

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

U.S. - Minnesota - Hazardous Substance List

1,2,4-Trimethylbenzene95-63-6PresentAcetone67-64-1PresentButane106-97-8Present

Hydrous magnesium silicate 14807-96-6 Present (fibrous, nonasbestiform, and respirable)

Propane 74-98-6 Simple asphyxiant

### U.S. - New Jersey - Right to Know Hazardous Substance List

 1,2,4-Trimethylbenzene
 95-63-6
 sn 2716

 Acetone
 67-64-1
 sn 0006

 Butane
 106-97-8
 sn 0273

 Hydrous magnesium silicate
 14807-96-6
 sn 1773

 Propane
 74-98-6
 sn 1594

#### U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Acetone 67-64-1 5000 Lb RQ (air); 1 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

1,2,4-Trimethylbenzene95-63-6Environmental hazardAcetone67-64-1Environmental hazard

Butane 106-97-8 Present Hydrous magnesium silicate 14807-96-6 Present Propane 74-98-6 Present

U.S. - Rhode Island - Hazardous Substance List

1,2,4-Trimethylbenzene 95-63-6 Toxic

Acetone 67-64-1 Toxic; Flammable
Butane 106-97-8 Toxic; Flammable
Hydrous magnesium silicate 14807-96-6 Toxic (powder or fibrous)
Propane 74-98-6 Toxic; Flammable

#### Inventory name

Country(s) or region Inventory name On inventory (yes/no)\*

CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited 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

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 Issue date
 22-Jan-2010

 Effective date
 15-Feb-2010

 Expiry date
 15-Feb-2013

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