MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Marsh Tan Spray Stencil Ink

CAS # Mixture
Product use Spray Ink

Manufacturer Marsh Shipping Supply Company, LLC

926 McDonough Lake Road, Unit E

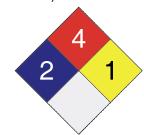
Collinsville, IL 62234 US Phone: (618) 343-1006 Fax: (618) 343-1016

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

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 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. Contains material which may cause cancer.

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
Carbonic acid calcium salt (1:1)	471-34-1	1 - 5
Titanium oxide	13463-67-7	1 - 5
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

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. 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 convulsing.

Notes to physician

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

Symptoms may be delayed.

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 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.

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

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

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static discharge

Not available

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. 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 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		
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		
Carbonic acid calcium salt (1:1)	ACGIH-TLV TWA: 10 mg/m3 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 aliph	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 Respiratory protection	As required by employer code. 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.		

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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** Color Tan Spray **Form** Odor Solvent. **Odor threshold** Not available Physical state Liquid

Not available pН **Melting point** Not available Not available Freezing point **Boiling point** Not available Not determined Flash point < 1(Ether = 1) **Evaporation rate**

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

Not available Vapor pressure Not available Vapor density Not available Specific gravity Octanol/water coefficient Not available Not available Auto-ignition temperature Not available Percent volatile

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Aerosol containers are unstable at temperatures above 49°C (120°F). Conditions to avoid

Strong acids, alkalies and oxidizing agents. Incompatible materials

1.8

12.8

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

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	> 16000 mg/m3 rat	
Butane	658 mg/m3 rat	
Carbonic acid calcium salt (1:1)	Not available	
Hydrous magnesium silicate	Not available	
Propane	Not available	
Solvent naptha (petroleum), light aliphatic	1400 mg/l/4h rat	
Titanium oxide	Not available	

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Component analysis - Oral LD50

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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
Butane	Not available
Carbonic acid calcium salt (1:1)	6450 mg/kg rat
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 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 Repeated or prolonged exposure to Hydrous magnesium silicate (Talc) may cause

scarring of the lungs with shortness of breath, chronic cough, and heart failure.

Carcinogenicity Contains a potential carcinogen.

ACGIH - Threshold Limits Values - Carcinogens

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

Hydrous magnesium silicate 14807-96-6 A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers); A1 -

Confirmed Human Carcinogen (containing asbestos fibers)

Titanium oxide 13463-67-7 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 2B (Possibly Carcinogenic to Humans)

Titanium oxide 13463-67-7 Monograph 93 posted, Monograph 47 [1989]

IARC - Group 3 (Not Classifiable)

Hydrous magnesium silicate 14807-96-6 Monograph 93 posted (inhaled), Supplement 7 [1987], Monograph 42 [1987]

MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

EcotoxicityComponents of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

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

aliphatic

Ecotoxicity - Freshwater Fish Species Data

1,2,4-Trimethylbenzene95-63-696 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]2-Propanol, 1-methoxy-, acetate108-65-696 Hr LC50 Pimephales promelas: 161 mg/L [static]

Acetone 67-64-1 96 Hr LC50 Oncorhynchus mykiss: 5540 mg/L [static]; 96 Hr LC50 Pimephales promelas:

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

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

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 water flea: 0.0039 mg/L; 48 Hr EC50 water flea: 12700 mg/L [Static]; 48 Hr

EC50 Daphnia magna: 12600 mg/L

Environmental effects Harmful to aquatic life.

Aquatic toxicityNot availablePersistence / degradabilityNot availableBioaccumulation / accumulationNot available

Partition coefficientNot availableMobility in environmental mediaNot availableChemical fate informationNot 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

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)

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

Controlled Products Regulations.

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

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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

2-Propanone: 5000.0000

Benzene, 1,3-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

No

Yes

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

WHMIS status Controlled

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

Division 2A, 2B

WHMIS labeling







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This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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 Present 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-Trimethylbenzene
 95-63-6
 Present

 Acetone
 67-64-1
 Present

 Butane
 106-97-8
 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 Titanium oxide 13463-67-7 Present

U.S. - Minnesota - Hazardous Substance List

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

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

Propane 74-98-6 Simple asphyxiant Titanium oxide 13463-67-7 Present

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 106-97-8 sn 0273 Butane 14807-96-6 sn 1773 Hydrous magnesium silicate Propane 74-98-6 sn 1594 sn 1861 Titanium oxide 13463-67-7

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-Trimethylbenzene 95-63-6 Environmental hazard Acetone 67-64-1 Environmental hazard

Butane 106-97-8 Present Hydrous magnesium silicate 14807-96-6 Present Propane 74-98-6 Present Titanium oxide 13463-67-7 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

Propane 74-98-6 Toxic; Flammable

Titanium oxide 13463-67-7 Toxic

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic 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 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 of or reliance on any information contained in this document.

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