### **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

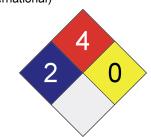
Collinsville, IL 62234 US Phone (618) 343-1006 Fax (618) 343-1016

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.

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

| Ingredient(s)                               | CAS#       | Percent   |
|---|------------|-----------|
| Heptane (n-)                                | 142-82-5   | 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     |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | 1 - 5     |
| Cyclohexane                                 | 110-82-7   | 0.5 - 1.5 |
|   |            |           |

### 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.

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Ingestion Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing. 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. Foam. 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. 7. Handling and Storage Use good industrial hygiene practices in handling this material. Handling

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.

| 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                                     | ACGIH-TLV  |  |
|  | TWA: 1000 ppm  |  |
|  | OSHA-PEL   |  |
|  | Not established  |  |
| Cyclohexane                                | ACGIH-TLV  |  |
|  | TWA: 100 ppm   |  |
|  | OSHA-PEL   |  |
|  | TWA: 300 ppm   |  |
| Heptane (n-)                               | ACGIH-TLV  |  |
|  | TWA: 1635 mg/m3  |  |
|  | STEL: 500 ppm  |  |
|  | OSHA-PEL   |  |
|  | TWA: 500 ppm   |  |
| 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                       | 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 no eat or drink. Wash hands and face before breaks and immediately after handling the product.  |  |
| 9  | Physical & Chemical Properties   |  |
| Appearance                                 | Aerosol.   |  |

Appearance Aerosol.

Color Tan

Form Spray

Odor Solvent.

Odor threshold Not available

Physical state Liquid

pH Not available

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Not available **Melting point** 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, %

by volume

12.8

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

# 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

| Component analysis - LC50                   |                   |  |
|---|-------------------|--|
| 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     |  |
| 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 |  |
| 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

Non-hazardous by WHMIS/OSHA criteria. Reproductive effects Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity** 

## 12. Ecological Information

**Ecotoxicity** Components of this product are hazardous to aquatic life. Components of this product

have been identified as having potential environmental concerns.

**Environmental effects** Harmful to aquatic life.

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

## 13. Disposal Considerations

Not available Waste codes

Review federal, provincial, and local government requirements prior to disposal. Do not Disposal instructions

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:

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

IATA: Shipping Name:

Aerosols, flammable, Class 2.1,

UN1950

IMDG Shipping Name: Aerosols, Class 2, UN1950,

EMS No. F-D, S-U

# 15. Regulatory Information

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

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

Controlled Products Regulations.

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

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available Clean Water Act (CWA) Not available Not available Safe Drinking Water Act (SDWA) **Drug Enforcement Agency (DEA)** Not available Food and Drug Administration (FDA) Not available Controlled WHMIS status

#15362 Page 5 of 6 Issue date 03-Aug-2005 Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 2R

### WHMIS labeling







### State regulations

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

| 67-64-1  | Present                          |
|----------|----------------------------------|
| 106-97-8 | Present                          |
| 110-82-7 | Present                          |
| 142-82-5 | Present                          |
| 74-98-6  | Present                          |
|          | 106-97-8<br>110-82-7<br>142-82-5 |

#### Minnesota - Hazardous Substance List

| Acetone      | 67-64-1  | Present |
|--------------|----------|---------|
| Butane       | 106-97-8 | Present |
| Cyclohexane  | 110-82-7 | Present |
| Heptane (n-) | 142-82-5 | Present |

Propane 74-98-6 Simple asphyxiant

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

| Acetone      | 67-64-1  | sn 0006 |
|--------------|----------|---------|
| Butane       | 106-97-8 | sn 0273 |
| Cyclohexane  | 110-82-7 | sn 0565 |
| Heptane (n-) | 142-82-5 | sn 1339 |
| 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

 Propane
 74-98-6
 Present

### Inventory name

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)           | Yes                    |
| 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

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