

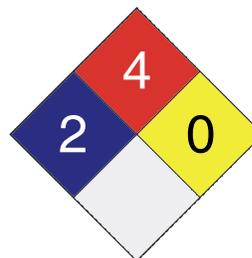
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Marsh Green 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<br>HMIS/NFPA |   |
|---------------------|---|
| Severe              | 4 |
| Serious             | 3 |
| Moderate            | 2 |
| Slight              | 1 |
| Minimal             | 0 |

|                     |     |
|---------------------|-----|
| Health              | * 2 |
| Flammability        | 4   |
| Physical Hazard     | 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.

**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 naphtha (petroleum), light aliphatic | 64742-89-8 | 7 - 13  |
| Acetone                                      | 67-64-1    | 30 - 60 |
| 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   |
| Hydrous magnesium silicate                   | 14807-96-6 | 1 - 5   |
| 1,2,4-Trimethylbenzene                       | 95-63-6    | 0.1 - 1 |

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## 4. First Aid Measures

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### First aid procedures

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.   |
| <b>Skin contact</b> | 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.   |
| <b>Inhalation</b>   | If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.   |
| <b>Ingestion</b>    | 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

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.

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## 5. Fire Fighting Measures

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### Flammable properties

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

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Carbon dioxide. Alcohol foam. Dry chemical. Foam. Water Fog. |
| <b>Unsuitable extinguishing media</b> | Not available  |

### Protection of firefighters

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | 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. |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus.   |

### Hazardous combustion products

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

### Explosion data

|   |               |
|---|---------------|
| <b>Sensitivity to mechanical impact</b> | Not available |
| <b>Sensitivity to static discharge</b>  | Not available |

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## 6. Accidental Release Measures

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### 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.

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## 7. Handling and Storage

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### 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                       | <b>ACGIH-TLV</b><br>TWA: 25 ppm<br><b>OSHA-PEL</b><br>TWA: 25 ppm                     |
| 2-Propanol, 1-methoxy-, acetate              | <b>ACGIH-TLV</b><br>Not established<br><b>OSHA-PEL</b><br>Not established             |
| Acetone                                      | <b>ACGIH-TLV</b><br>TWA: 500 ppm<br>STEL: 750 ppm<br><b>OSHA-PEL</b><br>TWA: 1000 ppm |
| Butane                                       | <b>ACGIH-TLV</b><br>TWA: 1000 ppm<br><b>OSHA-PEL</b><br>Not established               |
| Carbonic acid calcium salt (1:1)             | <b>ACGIH-TLV</b><br>TWA: 10 mg/m <sup>3</sup><br><b>OSHA-PEL</b><br>Not established   |
| Hydrous magnesium silicate                   | <b>ACGIH-TLV</b><br>TWA: 2 mg/m <sup>3</sup><br><b>OSHA-PEL</b><br>Not established    |
| Propane                                      | <b>ACGIH-TLV</b><br>TWA: 1000 ppm<br><b>OSHA-PEL</b><br>TWA: 1000 ppm                 |
| Solvent naphtha (petroleum), light aliphatic | <b>ACGIH-TLV</b><br>Not established<br><b>OSHA-PEL</b><br>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 and face before breaks and immediately after handling the product.

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## 9. Physical & Chemical Properties

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|   |                 |
|---|-----------------|
| <b>Appearance</b>                                     | Aerosol.        |
| <b>Color</b>  | Green           |
| <b>Form</b>   | Spray           |
| <b>Odor</b>   | Solvent.        |
| <b>Odor threshold</b>                                 | Not available   |
| <b>Physical state</b>                                 | Liquid          |
| <b>pH</b>   | Not available   |
| <b>Melting point</b>                                  | Not available   |
| <b>Freezing point</b>                                 | Not available   |
| <b>Boiling point</b>                                  | Not available   |
| <b>Flash point</b>                                    | Not determined  |
| <b>Evaporation rate</b>                               | < 1 (Ether = 1) |
| <b>Flammability limits in air, lower, % by volume</b> | 1.8             |
| <b>Flammability limits in air, upper, % by volume</b> | 12.8            |
| <b>Vapor pressure</b>                                 | Not available   |
| <b>Vapor density</b>                                  | Not available   |
| <b>Specific gravity</b>                               | Not available   |
| <b>Octanol/water coefficient</b>                      | Not available   |
| <b>Auto-ignition temperature</b>                      | Not available   |
| <b>Percent volatile</b>                               | Not available   |

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## 10. Chemical Stability & Reactivity Information

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|   |   |
|---|---|
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                    |
| <b>Conditions to avoid</b>                | Aerosol containers are unstable at temperatures above 49°C.     |
| <b>Incompatible materials</b>             | Strong acids, alkalis and oxidizing agents.                     |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. Phosgene. |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                        |

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## 11. Toxicological Information

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### Component analysis - LC50

| <b>Ingredient(s)</b>                         | <b>LC50</b>                   |
|--|-------------------------------|
| 1,2,4-Trimethylbenzene                       | 3661 ppm rat                  |
| 2-Propanol, 1-methoxy-, acetate              | Not available                 |
| Acetone                                      | > 16000 mg/m <sup>3</sup> rat |
| Butane                                       | 658 mg/m <sup>3</sup> rat     |
| Carbonic acid calcium salt (1:1)             | Not available                 |
| Hydrous magnesium silicate                   | Not available                 |
| Propane                                      | Not available                 |
| Solvent naphtha (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 |
| 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 |

**Effects of acute exposure**

|                        |   |
|------------------------|---|
| <b>Eye</b>             | May cause irritation. Contact with liquid may cause frostbite.  |
| <b>Skin</b>            | May cause irritation. Contact with liquid may cause frostbite.  |
| <b>Inhalation</b>      | Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).                               |
| <b>Ingestion</b>       | Not a normal route of exposure. May cause stomach distress, nausea or vomiting.   |
| <b>Sensitization</b>   | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Chronic effects</b> | Repeated or prolonged exposure to Hydrous magnesium silicate (Talc) may cause scarring of the lungs with shortness of breath, chronic cough, and heart failure. |
| <b>Carcinogenicity</b> | Non-hazardous by WHMIS/OSHA criteria.   |

**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) |

**IARC - Group 3 (Not Classifiable)**

|                            |            |   |
|----------------------------|------------|---|
| Hydrous magnesium silicate | 14807-96-6 | Monograph 93 posted (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.

## 12. Ecological Information

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

**Ecotoxicity - Freshwater Algae Data**

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

**Ecotoxicity - Freshwater Fish Species Data**

|                                 |            |  |
|---------------------------------|------------|--|
| 1,2,4-Trimethylbenzene          | 95-63-6    | 96 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]   |
| 2-Propanol, 1-methoxy-, acetate | 108-65-6   | 96 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** Not available

**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

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## 13. Disposal Considerations

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|  |   |
|--|---|
| <b>Waste codes</b>                           | Not available   |
| <b>Disposal instructions</b>                 | Review federal, provincial, and local government requirements prior to disposal. Do not puncture or incinerate container. |
| <b>Waste from residues / unused products</b> | Not available   |
| <b>Contaminated packaging</b>                | Not available   |

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## 14. Transport Information

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### 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)

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## 15. Regulatory Information

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**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

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

2-Propanone: 5000.0000  
Copper: 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** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**Safe Drinking Water Act (SDWA)** Not available

**Drug Enforcement Agency (DEA)** Not available

**Food and Drug Administration (FDA)** Not available

**WHMIS status** 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.

**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  |

**U.S. - Minnesota - Hazardous Substance 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 (nonasbestiform, respirable, and fibrous) |
| 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-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              |

**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 |

**Inventory name**

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic 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)

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## 16. Other Information

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**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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**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021