SAFETY DATA SHEET
Imperial Manufacturing Inc. Imperial Gas Fireplace Glass Cleaner KK0044
Issuing Date: November 7, 2019

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier:
Product Name: Imperial Gas Fireplace Glass Cleaner KK0044

Other Identification Means:
Synonyms: None

Use of Substance/Preparation and Restrictions:
Recommended Use: Imperial Gas Fireplace Glass Cleaner
Uses Advised Against: No information available

SDS Supplier Details:
Company Name: Imperial Manufacturing Inc.
Company Identification: 40 Industrial Park Road, Richibucto, New Brunswick, Canada. E4W 4A4
www.imperialgroup.ca
Company Emergency Telephone Number: Canutec (613) 996-6666 (Collect)

2. HAZARDS IDENTIFICATION

Classification:
This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CER 1910.1200) and WHMIS 2015.

GHS Label Elements, including precautionary statement:

Emergency Overview:
The product contains no substances which at given concentration, are considered to be hazardous to health.

Appearance: Beige  Physical State: Opaque Liquid  Odour: Typical

Label Elements
GHS Labeling
Flammable Liquids Category 3 H226
Skin Corrosion/Irritation Category 2 H315
Serious Eye Damage/Eye Irritation Category 2A H319
Specific Target Organ Toxicity, Single exposure, Narcotic effects, Category 3 H336

Hazard Pictograms (GHS):
Signal Word (GHS): Warning
Hazard Statements (GHS):
H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
Precautionary Statements (GHS) - Prevention:
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof (electrical/ventilating/lighting) equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P261: Avoid breathing fume, vapours, spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statements (GHS) - Response:
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P313: Specific treatment (see first aid on this label).
P337+P313: If eye irritation persists: Get medical advice/attention.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use water spray, CO2, foam or dry chemical for extinction.
Precautionary Statements (GHS) - Storage:
P403+P233 Store in a well-ventilated area. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Precautionary Statements (GHS) - Disposal:
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified (HNOC):
Static accumulating liquid can become electrostatically charged even in bonded grounded equipment. Sparks may ignite liquid and vapour may cause flash fire.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Description:</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient</td>
<td>CAS #</td>
</tr>
<tr>
<td>Stoddard Solvent</td>
<td>8052-41-3</td>
</tr>
<tr>
<td>Monoisopropanolamine</td>
<td>78-96-6</td>
</tr>
</tbody>
</table>
### 4. FIRST AID MEASURES

**First Aid Measures:**

**Eye Contact:**
Remove contacts. Flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin Contact:**
Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

**Inhalation:**
Remove to fresh air. If symptoms persist consult physician.

**Ingestion:**
Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.

**Notes to Physician:**
Treatment based on judgment of attending physician.

**Most Important symptoms and effects, both acute and delayed:**
Exposures to high concentrations of vapours may cause irritation to the eyes, nose and throat. Inhalation may cause nausea and dizziness. Skin contact may cause irritation with redness and swelling. Eye contact may cause irritation with redness and tearing.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**
Flood with water for extinguishing agent. CO2, dry chemical, alcohol resistant foam

**Unsuitable Extinguishing Media**
Water Jet.

**Specific Exposure Hazards**
Elevated temperatures can lead to the formation of irritating vapours. Decomposing products may include: CO and CO2. This product is a static accumulating liquid. Static accumulating liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour may cause flash fire.

**Hazardous Combustion Products**
Carbon Oxides.

**Explosion Data:**
**Sensitivity to Mechanical Impact:** None.
**Sensitivity to Static Discharge:** None.
**Special safety equipment:** Self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective clothing.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

General Measures: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Environmental Precautions:

Environmental Precautions: Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up:

Method for Containment: Contain any spills with dikes to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Stop leak if safe to do so without risk. Remove all sources of ignition. Absorb with synthetic or natural absorbent and dispose in a fireproof container.

Procedures for Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).


Procedures for Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Reference to Other Sections: See Heading 8. Exposure Controls and Personal Protection.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear gloves and safety glasses when handling. Wash hands thoroughly after handling. Eliminate all sources of ignition. Use non-sparking tools.

Information about fire and explosion protection: Keep respiratory protective device available. No special measures required.
Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in a cool location. Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in a dry, cool and well-ventilated area. Keep containers tightly closed. Keep away from incompatible materials. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH® TLV® TWA</th>
<th>OSHA PEL STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoddard Solvent</td>
<td>100 ppm</td>
<td>Not available</td>
</tr>
<tr>
<td>Monoisopropanolamine</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>200 ppm</td>
<td>400 ppm, 980 mg/m³</td>
</tr>
<tr>
<td>Morpholine</td>
<td>20 ppm</td>
<td>20 ppm, 70 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls:


Individual Protection Measures:

Eye protection: Safety goggles.
Skin protection: Use body-covering impervious clothing.
Hand protection: Chemical resistant gloves.
Respiratory protection: Use local exhaust or dilution ventilation.
Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Appearance</th>
<th>Odour</th>
<th>Odour Threshold</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opaque Liquid.</td>
<td>Viscous liquid</td>
<td></td>
<td>No information available.</td>
<td>Typical</td>
</tr>
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</table>
Imperial Manufacturing Inc. Imperial Gas Fireplace Glass Cleaner KK0044
Date: November 7, 2019

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH 10 % solution</td>
<td>10.0-11.5</td>
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</tr>
<tr>
<td>Melting/Freezing Point</td>
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<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
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<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower Limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour density</td>
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</tr>
<tr>
<td>Specific Gravity</td>
<td>0.985 – 0.995 g/cc</td>
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</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility Other Solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
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</tr>
<tr>
<td>Decomposition</td>
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<tr>
<td>Temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
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</tr>
<tr>
<td>Dynamic Viscosity</td>
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<td>None known</td>
</tr>
<tr>
<td>Explosive Properties</td>
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</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No date available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Other Properties:
Softening Point                        | No data available       |
VOC Content %                           | No data available       |
Particle Size                           | No data available       |
Particle Size Distribution              | No data available       |

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: None under normal processing
Hazardous Polymerization: Does not occur.
Conditions to avoid: Incompatible agents
Incompatible materials: Oxidizing agents, acids.
Hazardous Decomposition Products: Carbon oxides.
Thermal Decomposition / Conditions to be avoided: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: X Inhalation X Skin Contact X Eye Contact X Ingestion

Product Information:
Inhalation: Specific test data for substance/mixture not available
Eye Contact: Slight irritation

Date: November 7, 2019

SDS: Imperial Manufacturing Inc. Gas Fireplace Glass Cleaner KK0044
Skin Contact: Specific test data for substance/mixture not available
Ingestion: Specific test data for substance/mixture not available

Component Information:

**LC50**
- Stoddard Solvent: >5 mg/l, 4hr mist, Inhalation (Rat)
- Monoisopropanolamine: Not available
- Isopropyl Alcohol: >10000 ppm, 6hr vapour, Inhalation (Rat)
- Morpholine: 8 mg/l, Inhalation (Rat)

**LD50 (oral)**
- Stoddard Solvent: >5000 mg/kg, Oral (Rat)
- Monoisopropanolamine: 2813 mg/kg, Oral (Rat)
- Isopropyl Alcohol: 5840 mg/kg, Oral (Rat)
- Morpholine: 1910 mg/kg, Oral (Rat)

**LD50 (dermal)**
- Stoddard Solvent: >2000 mg/kg, Dermal (Rabbit)
- Monoisopropanolamine: 1851 mg/kg, Dermal (Rabbit)
- Isopropyl Alcohol: >12800 mg/kg, Dermal (Rabbit)
- Morpholine: 500 mg/kg, Dermal (Rabbit)

**Skin Corrosion / Irritation**
May cause skin irritation with redness and swelling.

**Serious Eye Damage / Irritation**
May cause eye irritation with redness and tearing.

**STOT (Specific Target Organ Toxicity) - Single Exposure**
Inhalations of high concentrations are irritating to the eyes and respiratory tract. It may cause headaches, dizziness, drowsiness and CNS depression.

Information on Toxicological Effects:

**Symptoms**
None known

**Delayed/Immediate/Chronic Effects from short- and long-term exposure:**
None known

**Sensitization**
None known

**Mutagenic Effects**
None known

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH®</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoddard Solvent</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Monoisopropanolamine</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>Group 3</td>
<td>A4</td>
<td>Not available</td>
</tr>
<tr>
<td>Morpholine</td>
<td>Group 3</td>
<td>A4</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Carcinogenicity**
None known

**Reproductive Toxicity**
None known

**STOT - Single Exposure**
None known

**STOT Repeated exposure**
None known

**Chronic Toxicity**
None known

**Target Organ Effects**
None known

**Numerical Measures of Toxicity (based on GHS Chapter 3.1)**
Not applicable

12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
Not classified

**Persistence and Degradability:**
No information available

**Bioaccumulative Potential:**
No information available
### 13. DISPOSAL CONSIDERATIONS

**Waste treatment Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste. If chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Disposal Methods**

Contaminated Packaging:
- Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes:
- Not available.

Ecology – Waste Materials:
- Avoid release to the environment.

### 14. TRANSPORT INFORMATION

**DOT:**
- UN 1268
- Petroleum Distillates, N.O.S.
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**TDG**
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**MEX**
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**ICAO**
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**IATA:**
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**IMDG/IMO:**
- Naphtha Solvent
- Class3
- PG III
- UN 1268
- Petroleum Distillates, N.O.S.

**RID**
- Not Regulated
15. REGULATORY INFORMATION

**International Inventories:**

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL</td>
<td>All components are listed either on the DSL or NDSL</td>
</tr>
</tbody>
</table>

TSCA – Untied States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List.

**Canadian Regulations:**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian WHMIS</td>
<td>D2B</td>
</tr>
<tr>
<td>Health Canada DIN:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Canadian DSL:</td>
<td>Appears.</td>
</tr>
</tbody>
</table>

**US State Regulations:**

**California Proposition 65**

This product does not contain any chemicals known by the state of California to cause cancer, birth defects, or any reproductive harm.

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>n/a</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>n/a</td>
<td>0</td>
</tr>
<tr>
<td>Physical and Chemical Hazards – Personal Protections</td>
<td>X</td>
<td>B</td>
</tr>
</tbody>
</table>

**HMIS III Rating**

Health: 2 Hazard
Flammability: 2 Hazard
Physical: 0 Minimal Hazard
Personal Protection: B

16. OTHER INFORMATION

**Prepared By:** Technical Department

**Issuing Date:** November 7, 2019

**Revision Date:** None

**Revision Note:** None

**Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.
Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet