SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LA LMM-6000SPRAY
   GSLA_LMM-6000 Black Aerosol Spray Can

Material number : 1130062

Chemical nature : metal oxide/hydroxide, alcohol, silicatic material, hydrocarbon, aliphatic, inorganic salt

Manufacturer or supplier’s details
Company name of supplier : Ferro Corporation
Address : 6060 Parkland Blvd. Suite 250
          Mayfield Heights OH 44124-4185
Telephone : (216) 875-5600

Emergency telephone number
In-Country Number : (800)424-9300
CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

Recommended use of the chemical and restrictions on use
Recommended use : Industrial use
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable aerosols : Category 1
Gases under pressure : Compressed gas
Acute toxicity (Inhalation) : Category 4
Eye irritation : Category 2A
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1A
Reproductive toxicity : Category 1B
Specific target organ toxicity - single exposure : Category 1
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity: Category 1
- repeated exposure

GHS Label element
Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:
Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Chemical nature:** metal oxide/hydroxide, alcohol, silicatic material, hydrocarbon, aliphatic, inorganic salt

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Trade Secret Molybdenum Compound</td>
<td>Not Assigned</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Trade Secret Silicated compound</td>
<td>Not Assigned</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>ammonium metavanadate</td>
<td>7803-55-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>quartz</td>
<td>14808-60-7</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>108-10-1</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General advice:** Consult a physician.

**If inhaled:**
- Remove to fresh air.
- If unconscious place in recovery position and seek medical advice.
- Never give anything by mouth to an unconscious person.

**In case of skin contact:** Wash off immediately with soap and plenty of water.
- If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**In case of eye contact:** Rinse immediately with plenty of water and seek medical advice.

**If swallowed:**
- Do NOT induce vomiting.
- Rinse immediately with plenty of water and seek medical advice.

**Most important symptoms and effects, both acute and delayed:**
- Causes serious eye irritation.
- Harmful if inhaled.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- May cause genetic defects.
May cause cancer.  
May damage fertility or the unborn child.  
Causes damage to organs.  
Causes damage to organs through prolonged or repeated exposure.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.  
Do not allow run-off from fire fighting to enter drains or water courses.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
In the event of fire and/or explosion do not breathe fumes.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent product from entering drains.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Advice on safe handling : Do not get in eyes or mouth or on skin.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Do not use in areas without adequate ventilation.  
Keep away from heat and sources of ignition.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>STEL</td>
<td></td>
<td>1,000 ppm</td>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td>Trade Secret Molybdenum Compound</td>
<td>Not Assigned</td>
<td>TWA</td>
<td>5 mg/m³ (Molybdenum)</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>0.5 mg/m³ (Molybdenum)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³ (Molybdenum)</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>Trade Secret Silicated compound</td>
<td>Not Assigned</td>
<td>TWA (Respirable fraction)</td>
<td>3 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust)</td>
<td>20 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>3 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable dust fraction)</td>
<td>3 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>ammonium metavanadate</td>
<td>7803-55-6</td>
<td>C (Dust)</td>
<td>0.05 mg/m³ (Vanadium)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C (Fumes)</td>
<td>0.05 mg/m³ (Vanadium)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>TWA</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
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</table>
### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
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</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>Methanol</td>
<td>Urine</td>
<td>End of shift (As soon as possible)</td>
<td>15 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

<table>
<thead>
<tr>
<th>LA LMM-6000SPRAY</th>
<th>GS LA LMM-6000 Black Aerosol Spray Can</th>
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</thead>
<tbody>
<tr>
<td>Product specification</td>
<td>Revision Date</td>
</tr>
<tr>
<td>RS_FP_603544</td>
<td>07/21/2016</td>
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<td>Version</td>
<td>Print Date</td>
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<td>1</td>
<td>10/09/2017</td>
</tr>
<tr>
<td>Material number</td>
<td>Page</td>
</tr>
<tr>
<td>1130062</td>
<td>Page 7 of 19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Sample</th>
<th>Exposure</th>
<th>Limit</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-methylpentan-2-one</td>
<td>108-10-1</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1 mg/l</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>200 mg/g Creatinine</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Engineering measures: Apply technical measures to comply with the occupational exposure limits. Provide adequate ventilation.

Personal protective equipment

**Respiratory protection**: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection**
- **Material**: Protective gloves

**Eye protection**: Safety glasses with side-shields. Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection**: Impervious clothing

**Protective measures**: Wear suitable protective equipment. Avoid contact with skin. When using do not eat, drink or smoke.

**Hygiene measures**: Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: Aerosol containing a compressed gas

**Colour**: Coloured

**Odour**: Characteristic

**Odour Threshold**: No data available
### pH
No data available

### Melting point/range
No data available

### Boiling point/boiling range
No data available

### Flash point
14 °C  
Method: calculated

### Evaporation rate
No data available

### Upper explosion limit
No data available

### Lower explosion limit
No data available

### Vapour pressure
No data available

### Relative vapour density
No data available

### Relative density
No data available

### Bulk density
No data available

### Solubility(ies)

- **Water solubility**: soluble
- **Solubility in other solvents**: No data available

### Partition coefficient: n-octanol/water
No data available

### Auto-ignition temperature
Not determined

### Viscosity

- **Viscosity, kinematic**: No data available

### Oxidizing properties
No data available

---

**SECTION 10. STABILITY AND REACTIVITY**

- **Reactivity**: No data available
- **Chemical stability**: No data available
- **Possibility of hazardous reactions**: No data available
- **Conditions to avoid**: Incompatible materials
- **Incompatible materials**: Incompatible with oxidizing agents. Incompatible with strong acids and bases.
- **Hazardous decomposition**: Stable under normal conditions.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
- inhalation (dust/mist/fume)
- inhalation (vapour)
- Skin
- Eye contact
- Ingestion

Acute toxicity:
Harmful if inhaled.

Product:

Acute oral toxicity:
- Acute toxicity estimate: 2,361 mg/kg
- Method: Calculation method

Acute inhalation toxicity:
- Acute toxicity estimate: 12115 ppm
- Exposure time: 4 h
- Test atmosphere: gas
- Method: Calculation method

Acute dermal toxicity:
- Acute toxicity estimate: > 5,000 mg/kg
- Method: Calculation method

Components:
ethanol:

Acute oral toxicity:
- LD50 Oral (Rat): 10,470 mg/kg

Acute inhalation toxicity:
- LC50 (Rat): 30,000 mg/l
- Exposure time: 4 h
- Test atmosphere: vapour

Acute dermal toxicity:
- LD50 (Rabbit): 15,800 mg/kg

Trade Secret Molybdenum Compound:

Acute oral toxicity:
- LD50 (Rat, male and female): 4,461 mg/kg
- Method: OECD Test Guideline 401
- GLP: yes

Acute inhalation toxicity:
- LC50 (Rat, male and female): >= 5,840 mg/m3
- Exposure time: 4 h
- Test atmosphere: dust/mist
- Method: OECD Test Guideline 403
- Target Organs: Mucous membranes
- GLP: yes
- Assessment: The substance or mixture has no acute inhalation toxicity
- Remarks: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity:
- LD50 (Rat, male and female): >= 2,000 mg/kg
- Method: OECD Test Guideline 402
- GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

**propane:**
- **Acute inhalation toxicity**: LC50 (Rat): 658 mg/l
- Exposure time: 4 h
- Test atmosphere: gas

**ammonium metavanadate:**
- **Acute oral toxicity**: LD50 (Rat, male and female): 275.87 mg/kg
- Method: OECD Test Guideline 401
- GLP: yes
- **Acute inhalation toxicity**: LC50 (Rat, male and female): 2.51 mg/l
- Exposure time: 4 h
- Test atmosphere: dust/mist
- Method: OECD Test Guideline 403
- GLP: yes

**ethyl acetate:**
- **Acute oral toxicity**: LD50 Oral (Rat): 6,100 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): > 22.5 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapour
- **Acute dermal toxicity**: LD50 Dermal (Rabbit): > 18,000 mg/kg

**methanol:**
- **Acute oral toxicity**: LD50 Oral (Rat): 6,200 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): 22500 ppm
  - Exposure time: 8 h

**2-butoxyethanol:**
- **Acute oral toxicity**: LD50 Oral (Rat, male and female): 1,200 mg/kg
  - Method: OECD Test Guideline 401
  - GLP: no
- **Acute inhalation toxicity**: LC50 (Rat, male): 2.4 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapour
  - Method: OECD Test Guideline 403
  - GLP: no
- LC50 (Rat, female): 2.2 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapour
  - Method: OECD Test Guideline 403
  - GLP: no
- **Acute dermal toxicity**: LD50 Dermal (Rat, male and female): > 2,000 mg/kg
  - Method: OECD Test Guideline 402
  - GLP: yes

**quartz:**
Acute oral toxicity: LD50 Oral (Rat): 500 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

4-methylpentan-2-one:
Acute oral toxicity: LD50 Oral (Rat): 2,080 mg/kg
Acute inhalation toxicity: LC50 (Rat): 8.2 mg/l
Exposure time: 4 h
Acute dermal toxicity: LD50 Dermal (Rabbit): 3,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

**Components:**

**ethanol:**
Species: Rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: No skin irritation

**Trade Secret Molybdenum Compound:**
Species: Rabbit
Exposure time: 4 h
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

**2-butoxyethanol:**
Species: Rabbit
Exposure time: 72 h
Assessment: Irritating to skin.
Method: OECD Test Guideline 404
Result: irritating
GLP: yes

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Components:**

**ethanol:**
Species: Rabbit
Result: Moderate eye irritation
Method: OECD Test Guideline 405

**Trade Secret Molybdenum Compound:**
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days
Exposure time: 48 h
Method: OECD Test Guideline 405
GLP: yes
ammonium metavanadate:  
Species: Rabbit  
Result: Irritating to eyes.  
Exposure time: 1 h  
Method: OECD Test Guideline 405  
GLP: yes

ethyl acetate:  
Species: Rabbit  
Result: No eye irritation

2-butoxyethanol:  
Assessment: Irritating to eyes.

Respiratory or skin sensitisation  
Skin sensitisation: Not classified based on available information.  
Respiratory sensitisation: Not classified based on available information.

Components:  
2-butoxyethanol:  
Assessment: Harmful if swallowed., Harmful if inhaled., Harmful in contact with skin., Causes serious eye irritation., Causes skin irritation.

Germ cell mutagenicity  
May cause genetic defects.

Carcinogenicity  
May cause cancer.

Reproductive toxicity  
May damage fertility or the unborn child.

STOT - single exposure  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Causes damage to organs.

Components:  
ammonium metavanadate:  
Assessment: May cause respiratory irritation.

STOT - repeated exposure  
Causes damage to organs through prolonged or repeated exposure.

Components:  
2-butoxyethanol:  
Repeated dose toxicity -  
Assessment: Harmful if swallowed., Harmful if inhaled., Harmful in contact with skin., Causes serious eye irritation., Causes skin irritation.

Aspiration toxicity  
Not classified based on available information.
IARC

- Carcinogenic to humans
  - quartz
  - Group 1: Carcinogenic to humans
  - 14808-60-7

- Possibly carcinogenic to humans
  - 4-methylpentan-2-one
  - Group 2B: Possibly carcinogenic to humans
  - 108-10-1

ACGIH

- Suspected human carcinogen
- quartz
- 14808-60-7

- Confirmed animal carcinogen with unknown relevance to humans

- Trade Secret Molybdenum Compound

OSHA

- No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

- Known to be human carcinogen
- quartz
- 14808-60-7

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

- Acute aquatic toxicity: This product has no known ecotoxicological effects.
- Chronic aquatic toxicity: This product has no known ecotoxicological effects.

Components:

- Ethanol: LC50 (Daphnia (water flea)): 9,268 mg/l
  - Exposure time: 48 h

Trade Secret Molybdenum Compound:

- Toxicity to fish:
  - Oncorhynchus mykiss (rainbow trout): 100 mg/l
  - Method: OECD Test Guideline 203
  - Remarks: No toxicity at the limit of solubility
  - Remarks: Pimephales promelas (fathead minnow): 370 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates:
(Daphnia magna (Water flea)): 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Exposure time: 48 h
Remarks: No toxicity at the limit of solubility

ammonium metavanadate:
Toxicity to daphnia and other aquatic invertebrates:
(Daphnia magna (Water flea)): 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Ecotoxicology Assessment
Acute aquatic toxicity: This product has no known ecotoxicological effects.
Chronic aquatic toxicity: This product has no known ecotoxicological effects.

ethyl acetate:
Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia (water flea)): 560 mg/l
Exposure time: 48 h

Toxicity to algae:
EC50 (algae): 3,300 mg/l
Exposure time: 48 h

methanol:
Toxicity to fish:
LC50 (Fish): 28,200 mg/l
Exposure time: 96 h

2-butoxyethanol:
Toxicity to fish:
LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,490 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 1,800 mg/l
Exposure time: 48 h

Ecotoxicology Assessment
Acute aquatic toxicity: No toxicity at the limit of solubility

Persistence and degradability
Components:
ethanol:
### Material Safety Data Sheet

<table>
<thead>
<tr>
<th>Component</th>
<th>Biodegradability</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret Molybdenum Compound</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>propane</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Trade Secret Silicated compound</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>ammonium metavanadate</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>ethyl acetate</td>
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<td>No data available</td>
</tr>
<tr>
<td>methanol</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
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</tr>
<tr>
<td>quartz</td>
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<td>No data available</td>
</tr>
</tbody>
</table>

### Bioaccumulative potential

#### Components:

- **ethanol:**
  - Bioaccumulation: Remarks: No data available
  - Partition coefficient: n-octanol/water: log Pow: -0.349 (24 °C)

- **Trade Secret Molybdenum Compound:**
  - Bioaccumulation: Remarks: No data available
  - Partition coefficient: n-octanol/water: Remarks: No data available

- **propane:**
  - Bioaccumulation: Remarks: No data available
  - Partition coefficient: n-octanol/water: Remarks: No data available

- **Trade Secret Silicated compound:**
  - Bioaccumulation: Remarks: No data available
  - ammonium metavanadate: Remarks: No data available
  - ethyl acetate: Remarks: No data available
  - Partition coefficient: n-octanol/water: log Pow: 0.73 (20 °C)
methanol:
Bioaccumulation : Remarks: No data available

2-butoxyethanol:
Bioaccumulation : Remarks: No data available
Partition coefficient: n-octanol/water : log Pow: 0.77 (20 °C)
pH: 7

quartz:
Bioaccumulation : Remarks: No data available

Mobility in soil

Components:
ethanol:
Distribution among environmental compartments : Remarks: No data available

Trade Secret Molybdenum Compound:
Distribution among environmental compartments : Remarks: No data available

propane:
Distribution among environmental compartments : Remarks: No data available

Trade Secret Silicated compound:
Distribution among environmental compartments : Remarks: No data available

ammonium metavanadate:
Distribution among environmental compartments : Remarks: No data available

ethyl acetate:
Distribution among environmental compartments : Remarks: No data available

methanol:
Distribution among environmental compartments : Remarks: No data available

2-butoxyethanol:
Distribution among environmental compartments : Remarks: No data available

quartz:
Distribution among environmental compartments : Remarks: No data available

Other adverse effects
No data available
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR
UN number : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203

IMDG-Code
UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
ERG Code : 126
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA 5a - Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act
Material Safety Data Sheet

LA LMM-6000SPRAY
GSLA_LMM-6000 Black Aerosol Spray Can

Product specification: RS_FP_603544
Version: 1
Material number: 1130062
Revision Date: 07/21/2016
Print Date: 10/09/2017
Page: 18 of 19

SARA 311/312 Hazards:
- Fire Hazard
- Sudden Release of Pressure Hazard
- Chronic Health Hazard
- Acute Health Hazard

SARA 302:
- No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:
- This product contains components that are reportable under the regulation.

Massachusetts Right To Know:
- This product contains components that are reportable under the regulation.

Pennsylvania Right To Know:
- This product contains components that are reportable under the regulation.

New Jersey Right To Know:
- This product contains components that are reportable under the regulation.

California Prop 65:
- WARNING! This product contains a chemical known to the State of California to cause cancer.
- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

The components of this product are reported in the following inventories:

- CH INV: Not in compliance with the inventory
- TSCA: On TSCA Inventory
- DSL: Not in compliance with the inventory
- AICS: On the inventory, or in compliance with the inventory
- NZIoC: Not in compliance with the inventory
- ENCS: Not in compliance with the inventory
- ISHL: Not in compliance with the inventory
- KECCI: On the inventory, or in compliance with the inventory
- PICCS: Not in compliance with the inventory
- IECSC: Not in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), EINECS (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland)

SECTION 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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