SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Icon-Etch Refill

CAS No: 7647-01-0
Index No: 017-002-00-2
EC No: 231-595-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company Name: DMG America LLC
Address: 242 South Dean Street
City, State, Zip Code: Englewood, NJ. 07631
Telephone: (800) 662-6383
Email: info@dmg-america.com
Website: www.dmg-america.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
- Skin corrosion/irritation: Skin Corr. 1B
- Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:
- May be corrosive to metals.
- May cause respiratory irritation.
- Causes severe skin burns and eye damage.

2.2. Label elements

Signal word: Danger
Pictograms: GHS05-GHS07

Hazard statements
- H290 May be corrosive to metals.
- H335 May cause respiratory irritation.
- H314 Causes severe skin burns and eye damage.

Precautionary statements
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hydrochloric (HCl).

**Chemical characterization**

- **Sum formula:** HCl
- **Molecular weight:** 36.46

**Hazardous components**

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No</td>
<td>Classification according to Directive 67/548/EEC</td>
<td></td>
</tr>
<tr>
<td>Index No</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td></td>
</tr>
<tr>
<td>REACH No</td>
<td>Hydrochloric (HCl).</td>
<td>15 - 20 %</td>
</tr>
<tr>
<td>7647-01-0</td>
<td>C - Corrosive, Xi - Irritant R34-37</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

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**SECTION 4: First aid measures**

4.1. **Description of first aid measures**

- **After inhalation**
  - Provide fresh air. Consult physician.
  - If victim is at risk of losing consciousness, position and transport on their side.

- **After contact with skin**
  - After contact with skin, wash immediately with plenty of water. Remove contaminated clothing immediately and dispose off safely.

- **After contact with eyes**
  - Move victim out of danger zone. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

- **After ingestion**
  - Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. Consult physician.

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**SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

5.2. **Special hazards arising from the substance or mixture**

Material is not combustible.

---

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

The following must be prevented: inhalation. skin contact. Eye contact. Wear suitable protective clothing.

6.2. **Environmental precautions**

Do not empty into drains or the aquatic environment.

6.3. **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Suitable material for diluting or neutralizing: lime-Water, "lime water" Ca(OH)2 aq.

---

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**
Advice on safe handling
Wear suitable protective clothing and gloves. Avoid contact with eyes.

Further information on handling
Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed. Suitable material for Container: Glass. material, acid proof.

Advice on storage compatibility
Do not store together with: Alkalis (alkalis). metal.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0</td>
<td>Hydrogen chloride (gas and aerosol mists)</td>
<td>1</td>
<td>2</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>8</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
When using do not eat or drink.

Eye/face protection
Tightly sealed safety glasses.

Hand protection
Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber):0,4mm

Respiratory protection
The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: green
Odour: pungent

pH-Value: ca.1

Changes in the physical state
point of decomposition: >100 °C

Lower explosion limits: 
Upper explosion limits: 
Vapour pressure: ca.21 hPa (at 20 °C)
Density (at 20 °C): ca1.1 g/cm³
Water solubility: miscible.

### SECTION 10: Stability and reactivity

10.4. Conditions to avoid
at °C: ca 100-point of decomposition

10.5. Incompatible materials
metals in powder form. metal. amines. Alkalis (alkalis).

10.6. Hazardous decomposition products
Hydrochloric (HCl).

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

**Acute toxicity**
Acute toxicity, oral LD50: (species: Rat.): 3000 ppm (Vol.)/1h

**Irritation and corrosivity**
Irritant effect on the eye: corrosive. Risk of serious damage to eyes.
Irritant effect on the skin: Causes burns.
Following inhalation: Coughing. shortage of breath. Gas / vapours, irritant.

**Additional information on tests**
highly caustic.

### SECTION 12: Ecological information

Further information
Leakage into the environment must be prevented.

### SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Advice on disposal**
Remove according to the regulations.

**Waste disposal number of waste from residues/unused products**
180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances Classified as hazardous waste.

### SECTION 14: Transport information

**Land transport (ADR/RID)**

14.1. UN number: UN 1789
14.2. UN proper shipping name: HYDROCHLORIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
**Safety Data Sheet**

**Icon-Etch Refill**

Product code: 220385 (6102)

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**Classification code:** C1  
**Special Provisions:** 520  
**Limited quantity:** 1 L  
**Transport category:** 2  
**Hazard No:** 80  
**Tunnel restriction code:** E

**Other applicable information (land transport)**  
E2

**Marine transport (IMDG)**

14.1. **UN number:** UN 1789  
14.2. **UN proper shipping name:** HYDROCHLORIC ACID  
14.3. **Transport hazard class(es):** II  
14.4. **Packing group:** 8  
**Hazard label:**

**Other applicable information (marine transport)**  
E2

**Air transport (ICAO)**

14.1. **UN number:** UN 1789  
14.2. **UN proper shipping name:** HYDROCHLORIC ACID  
14.3. **Transport hazard class(es):** II  
14.4. **Packing group:** 8  
**Hazard label:**

**Other applicable information (air transport)**  
E2  
: Y840

14.5. **Environmental hazards**  
ENVIRONMENTALLY HAZARDOUS: no

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**SECTION 15: Regulatory information**
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

SECTION 16: Other information

Relevant R-phrases (Number and full text)

34 Causes burns.

37 Irritating to respiratory system.

Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)

According to Regulation GHS_OSHA_(EC) No. 1907/2006