

Material Safety Data Sheet

(EC 1907/2006)
6102-21-02

Revision Date: 20.11.2008
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1. Chemical product and company identification

Product name:
Etching Gel HCl

Supplier:
DMG Chemisch-Pharmazeutische Fabrik GmbH
Elbgaustraße 248
22547 Hamburg
Germany

Fon: +49. (0) 40. 84006-301
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2. Hazards Identification

None, if handled according to directions.
Causes burns. Irritating to respiratory system.

3. Composition / Information on ingredients

Aqueous gel.

| Hazardous ingredients: | | | |
|------------------------|-------------------|---------------------|--|
| 7647-01-3 | Hydrochlorid acid | C, R 34 Xi, R 37 | |

4. First-aid measures

In case of inhalation: Fresh air. Call in physician.

In case of skin contact: Wash off with plenty of water. Immediately remove contaminated clothing.

In case of eye contact : Rinse out with plenty of water for at least 10 minutes with eyelid held wide open. Immediately call in ophthalmologist.

In case of ingestion: Let patient drink plenty of water. Immediately call in physician. Do not attempt to neutralize.

5. Fire-fighting measures

Not flammable.

Extinguishing media: Not applicable.

Not suitable extinguishing media: Not applicable.

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6. Accidental release measures

Personal precautions: Avoid substance contact. Do not inhale vapours. Wear suitable protective clothing.

Environmental precautions: Avoid pollution of water and sewage.

Methods for cleaning up: Take up mechanically, with inert fluid-binding material. Neutralize (e.g. with lime water).

7. Handling and storage

Handling:

Technical measures: Keep container tightly closed.

Safe handling advice: Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures: No special precautions necessary.

Storage conditions: Keep container tightly closed.

Incompatible products: Alkali, usual non-precious metals.

Recommended packaging material: Container of glass or acid-stable plastics.

8. Exposure controls/personal protection

Special control parameter:

Hydrogen chloride: 5 ml/m³, 8 mg/m³

Engineering measures: Avoid splashing.

Personal protective equipment:

Respiratory protection: requires when vapours/aerosols are generated filter E-(P2).

Hand and skin protection: Rubber gloves. Suitable: Nitril rubber, layer thickness: 0.11 mm, breakthrough time: > 480 min

Eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Green gel.

Odour: pungent

pH-value: ca. 1

Changes in physical state:

Boiling temperature: > 100 °C (water)

Flashpoint: not applicable.

Ignition temperature: not applicable.

Explosion properties: not applicable.

Vapour pressure: ca. 21 hPa/20 °C

Density: ca. 1.4 g/cm³

Solubility in water: miscible

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10 Stability and reactivity

- **Thermal decomposition:** None, if handled and stored according to directions.
Hazardous reactions: None, if handled and stored according to directions.
Materials to avoid: metals, metal alloys, amins, alkalis
Hazardous decomposition products: hydrogen chloride

11 Toxicological information

- **Acute toxicity:** LD₅₀ (inhalation, rat): 3000 ppm (Vol.) /1h.
Further toxicological information:
Strongly corrosive substance.
After inhalation: Irritation of the mucous membranes, coughing and dyspnoea.
Irritation of skin: Causes burns.
Irritation of eye: Causes burns. Risk of blindness.
After swallowing: Causes burns.

12 Ecological information

- Do not discharge into drains or the environment.
Mobility: No data available.
Persistence und degradability: No data available for the preparation.

13 Disposal considerations

- **Waste from residues:** Dispose to an authorised waste collection point. Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

14 Transport information

- **Regulations for land (road/railroad):**
GGVSE: Class 8, II
ADR: Class 8,II
RID: Class 8, II
Regulations for sea:
IMDG/GGVSee-Code: 8 Class II
EmS: F-A, S-B
UN-number: 1789
Additional information:
Proper shipping name: Hydrochloric acid, gel.

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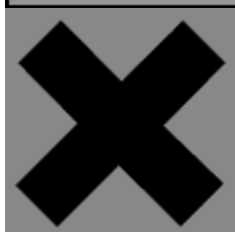
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15 Regulatory information

Labelling according to international regulations: C, Corrosive.

Contains hydrochloric acid.

Symbols of danger:



R-Phrases: 34, 37

Causes burns. Irritating to respiratory system.

S-Phrases: 26, 36/37/39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

16 Other information

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.