

Material Safety Data Sheet

(EC 1907/2006)

2600-21-03

Revision Date: 23.04.2009

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1. Chemical product and company identification

Product name:

Icon-Infiltrant

Supplier:

DMG Chemisch-Pharmazeutische Fabrik GmbH

Elbgaustraße 248

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Germany

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Emergency contact: Infotrac-(800)535-5053

2. Hazards Identification

None, if handled according to directions.

Irritating to eyes and skin. May cause sensitization by skin contact.

3. Composition / Information on ingredients

Yellowish liquid. Preparation of acrylic resins.

Hazardous ingredients:

Aliphatic dimethacrylates Xi, R36/38, R43

4. First-aid measures

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

In case of skin contact: Wash off with soap and 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: Immediately call in physician.

5. Fire-fighting measures

Extinguishing media: Powder, sand, foam, carbon dioxide.

Not suitable extinguishing media: direct jet of water

6. Accidental release measures

Personal precautions: Avoid 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.

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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. Keep container in a dark, well-ventilated place at +15 to 25 °C.

Recommended packaging material: Container of glass.

8. Exposure controls/personal protection

Special control parameter:

Aliphatic dimethacrylates. Danger of sensitization.

Engineering measures: Avoid splashing. Use only in well-ventilated areas.

Personal protective equipment:

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

Hand and skin protection: Rubber gloves. Suitable: Natural latex, layer thickness: 0.6 mm, breakthrough time: > 10 min

Eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Yellowish liquid

Odour: esterlike

pH-value: not applicable

Changes in physical state:

Boiling temperature: 250 °C

Flashpoint: 100 °C

Ignition temperature: not available.

Explosion properties: not available.

Vapour pressure: ca. 1,3 hPa/20 °C

Density: ca. 1 g/cm³

Solubility in water: miscible

10. Stability and reactivity

Thermal decomposition: No decomposition, if handled according to directions.

Hazardous reactions: None, if handled and stored according to directions.

Conditions to avoid: Strong heating, light.

Materials to avoid: Free radicals, reducing agents, heavy metal ions, strong alkalines.

Hazardous decomposition products: In case of fire acrid acrylic fumes.

Cures on exposure to visible or UV-light. Cures on exposure to free radicals.

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11. Toxicological information

Acute toxicity: LD₅₀ (oral, rat): >2000 mg/kg

Further toxicological information:
May cause sensitization.

After inhalation: Irritation symptoms in the respiratory tract.

After skin contact: Irritations. Risk of sensitization.

After eye contact: Irritations.

After swallowing: Irritation of the mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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.

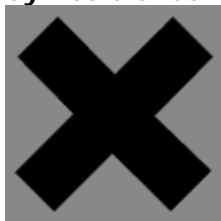
14. Transport information

Additional information: Not dangerous cargo.

15. Regulatory information

Labelling according international regulations: Xi, Irritant. Contains methacrylic ester.

Symbols of danger:



R-Phrases: 36/38 - 43

Irritating to eyes and skin. May cause sensitization by skin contact.

S-Phrases: 26 – 28 – 36/37/39

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

After contact with skin wash immediately with plenty of water and soap. Wear suitable protective clothing, gloves and eye/face protection.

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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.

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6700-22-04

1. Chemical product and company identification

Product name:

Icon-Dry

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2. Hazards Identification

Highly flammable

In case of inhalation: High concentrations of vapour may irritate respiratory system, and may cause nausea and dimming of consciousness.

In case of skin contact: Degreases skin.

In case of eye contact : Irritating to eyes.

In case of ingestion: Acts on mucous membrane and central nervous system.

3. Composition / Information on ingredients

Common chemical name / Generic name:

Ethanol

4. First-aid measures

In case of inhalation: Take patient to open air. Let sit down calmly.

In case of skin contact: Wash with soap and water. Remove contaminated clothing.

In case of eye contact : Immediately rinse with plenty of water, consult a physician.

In case of ingestion: Seek medical advice.

5. Fire-fighting measures

Extinguishing media: Powder, sand, foam, carbon dioxide, water spray.

Special risks: Combustible. Vapours heavier than air. Forms explosive mixtures with air ambient temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

Not suitable extinguishing media: Direct jet of water.

6. Accidental release measures

Personal precautions: Remove sources of ignition. Local exhaust. Avoid substance contact. Do not inhale vapours/aerosols.

Environmental precautions: Do not empty into drains.

Methods for cleaning up: Take up mechanically, with inert fluid-binding material.

7. Handling and storage

Handling:

Technical measures: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Keep container in a well-ventilated place.

Storage:

Technical measures: Keep container in a well-ventilated place.

Storage conditions: Keep container tightly closed. Keep in a cool place.

Recommended packaging material: Container of glass or metal.

not suitable packaging material: Vapour-permeable plastics.

8. Exposure controls/personal protection

engineering measures: Use only in well-ventilated areas.

Limit values: MAK-threshold 500 ppm.

Personal protective equipment:

respiratory protection: Do not breathe vapours/aerosols. Filtermask type A (if TLV is exceeded).

Hand and skin protection: Rubber gloves (nitril rubber 0,40 mm).

eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Colourless
Odour: Alcohol-like
pH-value: Neutral
Changes in physical state:
Melting temperature: appr. - 115 °C
Boiling temperature: appr. 80 °C
Flashpoint: 12 °C
Ignition temperature: 425 °C
Explosion properties: IL: 3,5 Vol %; uL: 15 Vol %
Vapour pressure: appr. 60 mbar
rel. vapour density: appr. 1.6
Density: ca. 0.8 g/cm³
Solubility in water: soluble

10 Stability and reactivity

Thermal decomposition: no information available
Hazardous reactions: None, if handled and stored according to directions.
Conditions to avoid: Heat.
Materials to avoid: Oxidizing agents, peroxides acids, alkali metals
Hazardous decomposition products: no information available

11 Toxicological information

Acute oral toxicity: LD₅₀ (oral, rat) > 6200 mg/kg
LD₅₀ (inhalation): 95.6 mg/l/4 h
Irritation of skin : Irritating on prolonged exposure.
Irritation of eye: Irritating.
Specific effects: None.

12 Ecological information

Mobility: No data available.
Persistence und degradability: Ethanol easily degradable.
Ecotoxicity: Fish-toxicity: *Leuciscus idus* LC₅₀ > 8140 mg/l / 48 h (Ethanol)
Daphnia toxicity: *Daphnia magna* EC₅₀: 9268 - 14221 mg/l / 48 h

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.
Contaminated packaging: Rinse, ventilate thoroughly.

14 Transport information

Regulations for land (road/railroad):

GGVSE: Class 3, II

ADR/RID: Class 3, II

Regulations for sea:

IMDG/GGVSee-Code: Class 3; II

EmS: F-E S-D

UN-number: 1170

Additional information:

Proper shipping name: Ethyl alcohol

15 Regulatory information

Labelling according international regulations:

F



Highly
flammable

R-Phrases:

R11 Highly flammable.

S-Phrases:

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

16 Other information

None.

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1. Chemical product and company identification

Product name:

Icon-Etch

Supplier:

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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, amines, 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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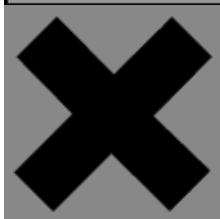
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15 Regulatory information

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.