

Material Safety Data Sheet YELLOW PORCELAIN ETCH – PORCELAIN ETCHING GEL

MSDS is prepared in accordance with REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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1. IDENTIFICATION

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2. HAZARDS IDENTIFICATION

Toxic and corrosive
Toxic thru inhalation, skin contact and after swallow.
Cause burning.

Classification according to GHS



HAZARDOUS

Hazardous: H301 Toxic after swallow
H311 Toxic after skin contact
H331 Toxic after inhalation
H314 Causes severe skin burns and eye damage

Prevention: IN CASE OF SWALLOW: flush mouth. DO NOT vomit.
IN CASE OF SKIN CONTACT: rinse with plenty of water with soap
IN CASE OF EYE CONTACT: Rinse by water carefully for few minutes.
If applicant and possible, take out contact lenses. Continue rinsing.
In case of contact or unwell: Call POISON center

Storage: P403 Store in well-ventilated room
P210 Store away from heat

3. INGREDIENTS

Name of the substance	CAS No.	WE No.	Classification	R-phrases	Concentration % (Mass percentage)
1. Hydrofluoric acid	7664-39-3	231-634-8	T+, C	26/27/28, 35	9,5
2. Glycerine	56-81-5	200-289-5	NA	NA	<10

The full wording of R-phrases and symbols can be found in point. 16 of this MSDS

4. EMERGENCY FIRST AID PROCEDURES

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General information

Do not give anything by mouth to an unconscious person.

After inhalation

Provide access to fresh air. Provide inertness in horizontal position. Give oxygen and call a doctor.

After eye contact

Immediately flush eyes with plenty of water for at least 10 minutes.

Avoid strong stream of water due to the risk of mechanical damage to the cornea.

Contact the oculist immediately.

After skin contact: Take off contaminated clothing. Rinse skin with plenty of water. Do not use soap or any neutralizing measures. Put a gel with calcium glukonate on irritated skin – it works anti-exudatory, anti-inflammatory and antihydricly. In case of irritation, contact your doctor.

After ingestion: Do not induce vomiting. Give calcium carbonate solution or milk to drink. Do not apply any neutralizing substances. **Call a doctor immediately.**

5. FIRE FIGHTING MEASURES

Non-flammable substance, appropriate measures for extinguish smoking materials in the environment.

Adequate fire-fighting measures: powders and fire-fighting foam, carbon dioxide.

Fire-fighting measures, which must not be used for safety reasons.

Do not use massive streams of water.

Special risks: Mixture has corrosive features.

Hazardous decomposition products

Toxic hydrogen fluoride can appear.

Special protective equipment: In case of fire, substances harmful to health can be produced. Put on protective gastight clothing and breathing apparatus complete with a full face mask.

6. UNINTENDED RELEASE INTO THE ENVIRONMENT

Individual precautions:

Avoid contact with eyes and skin. Provide for the exchange of air (ventilation).

Proceed in accordance with the principles of safety and health at work with chemicals. Use personal protective equipment as stated in paragraph 8.

Precautions concerning environment protection

In the event of a failure, do not allow discharges into the environment. Secure the product before it enters the sewers, groundwater, soil.

Cleaning method:

Use measures such as absorbing sand and carefully collect and place in an appropriate, well-marked container waste. Rinse the contaminated surface with water.

7. HANDLING AND STORAGE

Dealing with preparation: Proceed in accordance with the principles of good practice and in compliance with health and safety. While using of the device do not eat, drink or smoke, avoid

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eye and skin contact with the liquid, personal protective equipment (as defined in section 8).

Protection against fire and explosion: Preparation of non-flammable properties.

Storage: Store in original, well labeled packaging. Store in a well vented away from sources of heat. Protect from contact with glass and metals.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

Biological monitoring: Not applicable

Respiratory protection: Necessary – surgical mask, dental visor.

Eye protection: Necessary - goggles or face protection such as protective dental visor.

Skin protection: Necessary - gloves and appropriate protective clothing – lab coat.

Other information: While using the preparation avoid eye and skin exposure, do not consume meals and beverages, do not smoke.

9. PHYSICAL/CHEMICAL PROPERTIES

Physical form, color, odor:	yellow gel, frangible
Boiling point:	not determined
Melting point:	not determined
Vapor pressure:	not determined
Flash point:	not determined
Solubility in water:	good
Density:	1.28 g / ml
pH	1

10. STABILITY AND REACTIVITY

Stability:

Product stable under normal conditions of use and storage.

Materials and conditions that must be avoided:

Moisture, glass, alkalis, metals, metal oxides, strong oxidizers, organic anhydrides.

Hazardous decomposition products

The high temperature may cause toxic hydrogen fluoride may appear.

During contact with silicon compounds and then with moisture, toxic fumes of Hexafluorosilicic acid may appear.

11. TOXICOLOGICAL INFORMATION

Inhalation

Hydrofluoric acid LC_{50} (rat) 1610 ppm capacity / 1 h

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Hydrofluoric acid LCLO (human) 50 ppm capacity/30 min

Fumes cause pain and eyes tears, sore throat, hoarseness, dyspnea form cramp of bronchia

Ingestion

Ingestion may cause a mouth, throat, esophagus burn, bleeding from digestive system.

Skin

It can cause chemical skin burn: redness, swelling, itching, pain, blistering, ulceration and destruction of tissue located.

Eyes:

It can cause eyelids, conjunctives and cornea burns with its perforation.

Other information

None of the ingredients of the product is classified as carcinogenic, mutagenic or reprotoxic.

12. ECOLOGICAL INFORMATION

Ecotoxicology:

Toxic concentration for fish: 40-60mg/l converted to hydrofluoric acid.

Fluoric acid has a harmful effect on plants, causing their diseases.

Preparation harmful for aquatic environment, causes long lasting changes in aquatic system.

Bioaccumulation:

Not determined

Biodegradation:

Biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with governmental regulation or return to the producer.

14. TRANSPORTATION INFORMATION

The product is subject to regulations for hazardous materials.

Number of material: UN 3264

The correct name: the corrosive material (containing hydrofluoric acid 9,5%)

Transport by road (ADR / RID) - 8, (6.1), gr. packing II

Maritime transport (IMDG) - 8, gr. packing II

Air transport (ICAO / IATA) - 8, gr. packing II

15. REGULATION

Product has to be labeled. Contains hydrofluoric acid 9,5 %.

H301 Toxic after swallow

H311 Toxic after skin contact

H331 Toxic after inhalation

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H314 Cause major skin burns and eye damage



General information:

The product intended for use only by qualified medical personnel, as recommended by the manufacturer.

NOTE: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the material safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16.OTHER INFORMATION

Explanation of symbols and phrases appearing in section 3:

T+	very toxic substance
R 26/27/28	very toxic by inhalation, in contact with skin and if swallowed.
C	corrosive substance
R 35	causes severe burns.

Classification of C, R34 calculation method was made based on the value of phosphoric acid concentration ($C \geq 10\%$).

Other sources of basic data to compile the data sheet:

- MSDS of the individual ingredients of this product
- Computer Database EINECS, 2005.
- IUCLID Data Bank
- ESIS - European Chemical Substances Information System

You will be responsible for creating the conditions for the safe use of the product and bear responsibility for any consequences resulting from misuse of this product.