



**MATERIAL SAFETY DATA SHEET
CHEMICAL SUBSTANCES AND PRODUCTS
ACCORDING DIRECTIVE 91/155/EEC**

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1 IDENTIFICATION OF SUBSTANCE

Product details:

Trade name: *i-Gel*

Application of the substance / the preparation: Etchants

Manufacturer/Supplier:

*UAB Medicinos linija
Karaliaučiaus str. 29
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Further information obtainable from:

- Department Analytical Research/Research & Development/or technical information
- Department Marketing & Sales for distribution of the safety data sheets

Information in case of emergency: +370 698 35538

2 HAZARDS IDENTIFICATION

2.1 Hazard description:

C Corrosive

2.2 Information concerning to particular hazards to man and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 34 Causes burns.

2.3 Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization description: Mixture of substances listed below with nonhazardous additions.

Dangerous components	% Weight	R-phrases	CAS No.	EINECS No.
Phosphoric acid	37%	C; R 34	7664-38-2	231-633-2

Additional information: For the wording of the listed risk phrases refer to section 15.

Dangerous components:

4 FIRST AID MEASURES

4.1 General information: Immediately remove any clothing soiled by the product.

4.2 After inhalation: Void.

4.3 After skin contact: Immediately wash with water and soap and rinse thoroughly.

4.4 After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

4.5 After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 FIRE FIGHTING MEASURES

5.1 Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

6 ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions: Wear protective clothing. Keep unprotected persons away.

6.2 Measures for environmental protection: Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

6.3 Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 HANDLING AND STORAGE

7.1 Handling: Product is intended for dental use only.

Information for safe handling: Observe normal care for working with chemicals.

Information about fire - and explosion protection: No special measures required.

7.2 Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:**7664-38-2 phosphoric acid**

OEL	Short-term value: 3 mg/m ³
	Long-term value: 1 mg/m ³

8.2 Additional information: The lists valid during the making were used as basis.

8.3 Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

8.4 Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

8.5 Eye protection:



Tightly sealed goggles

9 PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Viscous
Color:	Blue
Odour:	Odourless
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	213°C
Flash point:	Not applicable
Ignition temperature:	370°C

Self-igniting:	Product is not self-igniling.
Danger of explosion:	Product does not present an explosion hazard.
Vapour pressure at 20°C::	23 hPa
Density at 20°C:	1.88 g/cm ³
Solubility in / Miscibility with Water:	Fully miscible
pH-value at 20°:	<2
Solvent content:	
Organic solvents:	0.0%
Water:	59.0%
Solids content:	6.0%

10 STABILITY AND REACTIVITY

10.1 Thermal decomposition /conditions to be avoided:

No decomposition if used according to specifications.

10.2 Dangerous reactions:

No dangerous reactions known.

10.3 Dangerous decomposition products:

No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

LD/LC50 values relevant for classification:		
7664-38-2 phosphoric acid		
Oral	LD50	1530 mg/kg (rat)
Dermal	LD50	2740 mg/kg (rabbit)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

11.2 Sensitization: No sensitizing effects known.

11.3 Additional lexicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Corrosive.

Swallowing will lead to a burning respectively to a caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 ECOLOGICAL INFORMATION

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class! Slightly hazardous for water.

Must not reach sewage water or drainage ditch undiluted or un neutralized.

13 DISPOSAL CONSIDERATIONS

Product:

Recommendation



Must not be disposed together with house hold garbage. Do not allow product to reach sewage system.

Un cleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 TRANSPORT INFORMATION**14.1 Land transport ADR/RID (cross-border):**

ADR/RID class: 8 (C1) Corrosive substance
Danger code (Kemler): 80
Un-Number: 3264
Packaging group: III
Hazard label: 8
Description of goods: 1805 Phosphoric acid, mixture

**14.2 Maritime transport IMDG:**

IMDG Class: 8
Un-Number: 3264
Label: 8
Packaging group: III
EMS Number: F-A, S-B
Marine pollutant: No
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (phosphoric acid, mixture)

**14.3 Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: 8
UN/ID Number: 3264
Label: 8
Packaging group: III
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (phosphoric acid, mixture)

**15 REGULATIONS****15.1 Labeling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

C Corrosive

Hazard-determining components of labeling: phosphoric acid

15.2 Risk phrases:

R 34 Causes burns.

15.3 Safety phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 20 When using do not eat or drink.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Water hazard class: Water hazard class I. Slightly hazardous for water.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

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