

SAFETY DATA SHEET

CHEMICAL SUBSTANCE / MIXTURE REGULATION (EC) No1907/2006 AS AMENDED BY REGULATION (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1. Product identifiers

Product names	i-GEL ^N
Chemical name	-
Identified uses	Phosphoric acid etching gel and liquid

1.2. Details of the supplier of the safety data sheet

Company	UAB "Medicinos linija"
Address	Karaliaučiaus str. 29 LT-78374 Šiauliai, Lithuania
Telephone	+370 41 553 553
Fax	+370 41 553 551
E-mail address	dental@i-dental.lt

1.3. Emergency telephone number

Emergency telephone number (Available only during office hours)	+370 41 553 553
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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin Corr. 1B

2.1.1. Label elements

Pictograms



Signal word **Danger**

Hazard statements

H314: Causes severe skin burns and eye damage

Precaution statements (prevention)

P260: Do not breathe dust/fume/gas/mist/vapours/spray

P264: Wash hands thoroughly after handling

P280: Wear protective gloves / protective clothing / eye protection / face protection

Precaution statements (response)

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P363: Wash contaminated clothing before reuse

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310: Immediately call a POISON CENTER or doctor/physician

P321: Specific treatment (see SECTION 4 on this label)

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Information on ingredients:

Name	CAS No	EC No	Hazard statement	Content, %
Phosphoric acid	7664-38-2	231-633-2	H314	35-40

SECTION 4: FIRST AID MEASURES

4.1. General advice

In doubt, consult a physician. Show this safety data sheet to the doctor in attendance.

4.2. If swallowed

Never give anything by mouth to an unconscious person. Take casualty to the hospital.

If the person is conscious rinse the mouth and spit the fluids out. Subsequently, have the casualty drink 1 - 2 glasses of water immediately. **Do not try to neutralize with bases, no charcoal! Do NOT induce vomiting.** During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid the penetration of vomit into the air tube. Refer for medical attention.

4.3. **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Refer for immediate medical attention.

4.4. **If inhaled**

Remove the casualty from the hazardous area and take him to the fresh air. If not breathing, give artificial respiration. Keep warm and at rest. Refer for immediate medical attention.

4.5. **In case of skin contact**

Take off contaminated clothing. Wash off with plenty of water. If symptoms (irritation or blistering) occur obtain medical attention. Wash contaminated clothing before reuse.

4.6. **Most important symptoms and effects, both acute and delayed**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.7. **Indication of any immediate medical attention and special treatment needed**

No data available.

SECTION 5: FIRE FIGHTING MEASURES

5.1. **Extinguishing media**

Use water, water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. **Advice for fire fighters**

Standard procedure for chemical fires.

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

Oxides of phosphorus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2. **Environmental precautions**

Do not let product enter drains

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

Use personal protective equipment when cleaning. Soak up with inert absorbent material and dispose. Keep in suitable, closed containers for disposal.

6.4. **Reference to other sections**

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. **Precautions for safe handling**

Avoid contact with eyes and skin. Use personal protective equipment. Keep away from food, drinks and animal feed. Do not eat or drink when using this product.

7.2. **Conditions for safe storage, including any incompatibilities**

Keep in cool, well ventilated place. Keep away from heat and direct sunlight. Storage temperature: Preferably not exceeding 28°C.

7.3. **Specific end uses**

Dental use only.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. **Exposure limit values**

Occupational Exposure limits

SUBSTANCE	CAS No.	OEL Short-term value	OEL Long-term value
Phosphoric acid	7664-38-2	3 mg/m ³	1 mg/m ³

8.2. **Exposure controls**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Storage properly (p.7).

Preventive medical check-ups should be arranged.

8.3. **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.4. **Personal protective equipment**

8.4.1. **Eye/face protection**

Wear eye / face protection equipment. Safety glasses with side-shields, conforming to EN 166.

8.4.2. **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected

protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

8.4.3. Skin protection

Keep working clothes separately. Take off contaminated clothing immediately. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.4.4. Respiratory protection

Does not dust. If you need to protect the airways use respirators, that have been tested and approved by the relevant governmental standards, such as CEN (EU) or NIOSH (USA).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. General information**

Appearance	viscous gel/liquid
Odour	specific
Colour	blue, green

9.2. Important health, safety and environment information

pH	<1
Boiling point	no data available
Flash point	no data available
Water solubility	soluble

SECTION 10: STABILITY AND REACTIVITY**10.1. Stability**

Stable under normal temperature and pressure

10.2. Conditions to avoid

No data available.

10.3. Materials to avoid

Strong bases, powdered metals.

10.4. Hazard decomposition products

Oxides of phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Possible dangerous to health effects**

No data available regarding specific product.

11.2. Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

11.3. Skin corrosion/irritation

May be harmful if absorbed through skin. Causes skin burns.

11.4. Serious eye damage/eye irritation

Causes eye burns.

11.5. Respiratory or skin sensitization

May cause allergic skin reactions.

11.6. Ingestion

Harmful if swallowed. Causes burns.

11.7. Germ cell mutagenicity

No data available.

11.8. Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.9. Reproductive toxicity

No data available.

11.10. Specific target organ toxicity - single exposure

No data available.

11.11. Specific target organ toxicity - repeated exposure

No data available.

11.12. Aspiration hazard

No data available.

11.13. Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation. Cough, wheezing, laryngitis. Shortness of breath. Headache. Nausea. None of these effects are likely to occur in humans, provided exposure is maintained at or below occupational exposure limit.

11.14. Toxicity data

LD/LC50 values relevant for classification:

7664-38-2 phosphoric acid

Oral LD50 1530 mg/kg (rat)

Dermal LD50 2740 mg/kg (rabbit)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity	No data available
12.2. Mobility	No data available
12.3. Persistence and degradability	No data available
12.4. Bio accumulative potential	No data available
12.5. Results of PBT and vPvB assessment	No data available
12.6. Other adverse effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Disposal should be in accordance with local, state or national legislation. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product. Do not remove the information from package.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number: 3264
- 14.2. Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s., phosphoric acid, mixture
- 14.3. Hazard class: 8
- 14.4. Packing group: III
- 14.5. ADR classification code: 8 (C1) Corrosive substance
- 14.6. IMDG class: 8
- 14.7. ADR transport category: 2
- 14.8. Tunnel restriction code: D1E
- 14.9. Labelling:

**SECTION 15: REGULATORY INFORMATION**

- 15.1. This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010.
- 15.2. Other Regulations: EINECS: Components of mixture are on the European Inventory of Existing Commercial Chemical Substances.
- 15.3. This safety data sheet information is not a professional risk assessment.
- 15.4. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No data available.
- 15.5. **Chemical Safety Assessment**
No data available.
- 15.6. **Health, safety and environmental information**
No data available.

SECTION 16: OTHER INFORMATION

- 16.1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
- 16.2. UAB „Medicinos linija“ shall not be held liable for any damage resulting from handling or from contact with the above product.
- 16.3. The product should not be used for purposes other than specified in p.7.3 purposes.
- 16.4. User is responsible for the legal, regulatory compliance.
- 16.5. References to the changes that have been made in comparison with _ version: whole document.
- 16.6. Abbreviations and acronyms used in the safety data sheet:
 - 16.6.1. EC – European Commission
 - 16.6.2. GHS – Globally Harmonized System
 - 16.6.3. CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 - 16.6.4. CAS No – Chemical Abstracts Service number
 - 16.6.5. EC No – EINECS and ELINCS Number (see also EINECS and ELINCS)
 - 16.6.6. PBT - Persistent, Bio accumulative and toxic substance
 - 16.6.7. VPvB – Very Persistent and Very Bio accumulative
 - 16.6.8. ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
 - 16.6.9. UN – United Nations
 - 16.6.10. LC50 – Lethal Concentration to 50 % of a test population
 - 16.6.11. LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose)
- 16.7. Key literature references and sources for data: <http://echa.europa.eu>.

16.8. List of relevant hazard statements, safety phrases and/or precautionary statements full text:

Signal word: Danger

H314: Causes severe skin burns and eye damage

P260: Do not breathe dust/fume/gas/mist/vapours/spray

P264: Wash hands thoroughly after handling

P280: Wear protective gloves / protective clothing / eye protection / face protection

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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16.9. Training advice: How to properly handle chemical substances / mixtures employees must be trained in accordance with national requirements.