

## SAFETY DATA SHEET

### CHEMICAL SUBSTANCE / MIXTURE REGULATION (EC) No 1907/2006 AS AMENDED BY REGULATION (EU) No 453/2010

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

##### 1.1. Product identifier

Product name **dline Phosphoric Acid Etching Gel**  
Chemical name -

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Phosphoric acid etching gel

##### 1.3. Details of the supplier of the safety data sheet

Company UAB "Medicinos linija"  
Address Karaliaučiaus str. 29  
LT-78348 Šiauliai, Lithuania  
Telephone +370 41 553 553  
E-mail address [info@i-dental.lt](mailto:info@i-dental.lt)

##### 1.4. Emergency telephone number

Emergency telephone number +370 41 553 553  
(Available only during office hours)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

###### 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B

##### 2.2. Label elements

###### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

###### Pictograms



**Signal word** **Danger**

###### Hazard statements

H314: Causes severe skin burns and eye damage

###### Precautionary 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

###### Precautionary 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	Index No	Hazard statement	Content, %
Phosphoric acid	7664-38-2	231-633-2	015-011-00-6	H314	35-40

**SECTION 4: FIRST AID MEASURES**4.1. **Description of first aid measures**4.1.1. **General advice**

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

4.1.2. **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.

4.1.3. **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.

4.1.4. **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.

4.1.5. **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.

4.2. **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.

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

Oxides of phosphorus.

5.3. **Advice for fire fighters**

Standard procedure for chemical fires.

**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. **Control parameters**8.1.1. **Exposure limit values**

No exposure guidelines have been established for mixture. ACGIH, NIOSH and OSHA have not developed exposure limits for this product.

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

**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.

**8.2.1. Appropriate engineering controls**

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

**8.2.2. Personal protective equipment****8.2.2.1. Eye/face protection**

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

**8.2.2.2. 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.

**8.2.2.3. 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.

**8.2.2.4. 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).

**8.2.3. Environmental exposure controls**

Do not let enter the environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	viscous gel/liquid
Odour	specific
Colour	blue, green
pH	~1
Boiling point	no data available
Flash point	no data available
Water solubility	soluble
Viscosity	6000-10000

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

No data available.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

Strong bases, powdered metals.

**10.6. Hazard decomposition products**

Oxides of phosphorus.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****11.1.1. Acute toxicity**

LD50 values relevant for classification:

7664-38-2 phosphoric acid

Oral LD50 1530 mg/kg (rat)

Dermal LD50 2740 mg/kg (rabbit)

**11.1.2. Skin corrosion/irritation**

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

**11.1.3. Eye damage/eye irritation**

Causes eye burns.

**11.1.4. Respiratory or skin sensitization**

No data available.

**11.1.5. Germ cell mutagenicity**

No data available.

**11.1.6. 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.

**11.1.7. Reproductive toxicity**

No data available.

**11.1.8. Specific target organ toxicity - single exposure**

No data available.

**11.1.9. Specific target organ toxicity - repeated exposure**

No data available.

**11.1.10. Aspiration hazard**

No data available.

**11.1.11. 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 below occupational exposure limit.

## SECTION 12: ECOLOGICAL INFORMATION

12.1. <b>Ecotoxicity</b>	No data available
12.2. <b>Persistence and degradability</b>	No data available
12.3. <b>Bioaccumulative potential</b>	No data available
12.4. <b>Mobility in soil</b>	No data available
12.5. <b>Results of PBT and vPvB assessment</b>	No data available
12.6. <b>Other adverse effects</b>	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. AIR TRANSPORT (IATA)**

UN/ID number: UN3264

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., PHOSPHORIC ACID, MIXTURE

Hazard class: 8

Packing group: III

Special Provisions: A3, A803

Danger label(s):



**14.2. LAND TRANSPORT (ADR/RID)**

Transport document description: UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. PHOSPHORIC ACID, MIXTURE, 8, III, (E)

Transport category: 3

Packing group (ADR): III

Class (ADR): 8

Tunnel restriction code: (E)

Classification: C1

Danger number: 80

Danger label(s):



**14.3. MARINE TRANSPORT (IMDG)**

Transport document description: UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. PHOSPHORIC ACID, MIXTURE

Packing group: III

Class (IMDG): 8

EmS-No. (1): F-A

EmS-No. (2): S-B

Marine pollutant: NO

Danger label(s):



## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010.

Other Regulations: EINECS: Components of mixture are on the European Inventory of Existing Commercial Chemical Substances.

This safety data sheet information is not a professional risk assessment.

### 15.2. Chemical Safety Assessment

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 2015-07-01 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

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

P501: Dispose of contents/container to (see section 13)

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