

# SAFETY DATA SHEET

**Product name:** ANA ETCHING GEL

SDS Drawn up: 2004-04-28      SDS Revised: 2012-03-01

## 1. Identification of the substance / preparation and of the company

**Trade name:** ANA ETCHING GEL  
**Chemical name:**  
**Field of application:** Etching of enamel and dentin  
**Supplier:** Nordiska Dental AB  
**Postal address:** Box 1082      **Telephone no:** +46 431 443 360  
**Postcode and town:** S-262 21 Ängelholm      **Fax no:** +46 431 443 399  
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**Emergency telephone:** +46 431 443 360      **Contact:** Ewa-Lotte Pedersen

## 2. Hazards identification

**Classification:** Corrosive  
**Adverse physicochemical effects:** Corrosive. The product has a pH-value of 1,6  
**Adverse human health effects:** Causes severe burns.  
**Adverse environmental effects:-**  
**Classification of the substance or mixture:** In accordance with Regulation (EC) No 1272/2008:  
Skin corrosion (Category 1B)  
According to EU Directives 67/548/EEC  
Causes burns

### Label information



**Pictogram:**

**Signal word:** Danger

**Hazard statements:** H314 Causes severe skin burns and eye damage

**Precautionary statements:** P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

## 3. Composition / information on ingredients

Component	CAS-no	Einecs-no	Content (%)	Classification*
Phosphoric acid	7664-38-2	231-633-2	37,0	Skin Corr. 1B; H314*
Fused silica	7631-86-9	231-545-4	4,7	-

\* The full wordings of the phrases are listed in section 16.

## 4. First aid measures

**Inhalation:-**

**Skin contact:** Take off contaminated clothing. Wash off with plenty of water.

**Eye contact:** Keep the eyelids wide apart and flush with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** Immediately drink ca. 0,5 L of water, or milk. Do not induce vomiting. Get medical attention as soon as possible.

**Further information:** Never give any food and/or drink to an unconscious person. Please show this safety data sheet to the doctor on duty. Get medical attention in case of uncertainty.

## 5. Fire-fighting measures

**Suitable extinguishing media:** All extinguishing media.

**Extinguishing media which must not be used:-**

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:-**

**Special protective equipment:-**

**Further information:** The product is inflammable.

## 6. Accidental release measures

**Personal precautions:** Eye bath should be available in the premises. Avoid skin contact. Use protective clothing and gloves. Eye protectors should be used.

**Environmental precautions:-**

**Methods for cleaning up:-**

## 7. Handling and storage

**Handling:** The product should be handled in accordance with strict hygiene practises.

**Storage:** Recommended storage temperature < 25°C. Can be stored for three years, counting from the date of manufacture, always provided that the product is properly stored.

## 8. Exposure controls / personal protection

**Exposure limit values:** Phosphoric acid: OSHA Permissible Exposure Limit (PEL): Time Weighted Average (TWA) 1 mg/m<sup>3</sup>. NIOSH Recommended Exposure Limit (REL): TWA 1 mg/m<sup>3</sup> ST 3 mg/m<sup>3</sup>. NIOSH Immediately Dangerous to Life or Health (IDLH): 1 000 mg/m<sup>3</sup>.

**Exposure controls:** All work should be carried out in accordance with strict hygiene practises. All work should take place in suitable premises, in accordance with the existing legislation and regulations. See also heading 7. Handling and storage.

**Occupational exposure controls:**

- **respiratory protection:-**
- **hand protection:** Protective gloves should be used in order to avoid exposure.
- **eye protection:** Eye protectors should be used in order to avoid exposure.
- **skin protection:** Protective clothing should be used in order to avoid exposure.

**Environmental exposure controls:-**

## 9. Physical and chemical properties

**General information:**

- Appearance: Blue gel.
- Odour: No odour.

**Important health, safety and environmental information:**

- |   |     |                                   |                                 |
|---|-----|-----------------------------------|---------------------------------|
| · pH:                                     | 1,6 | · Boiling point/interval:         | -                               |
| · Flash point:                            | -   | · Flammability (solid, gas):      | -                               |
| · Explosive properties:                   | -   | · Oxidising properties:           | -                               |
| · Vapour pressure:                        | -   | · Density:                        | 1 200 Kg/m <sup>3</sup> (20°C). |
| · Water solubility:                       | -   | · Solubility in organic solvents: | -                               |
| · Vapour density:                         | -   | · Evaporation rate:               | -                               |
| · Partition coefficient: n-octanol/water: | -   | · Viscosity:                      | -                               |

## 10. Stability and reactivity

**Conditions to avoid:-**

**Materials to avoid: -**

**Hazardous decomposition products:-**

## 11. Toxicological information

**Dangerous-to-health effects and symptoms related to:**

- **inhalation:-**
- **ingestion:** May be harmful if swallowed. Causes burns.
- **skin contact:** May be harmful if absorbed through skin. Causes skin burns.
- **eye contact:** Causes eye burns.

## 12. Ecological information

**Ecotoxicity:** Phosphoric acid: LD50 (oral, rat): 1 530 mg/Kg. LD50 (dermal, rabbit): 2 740 mg/Kg. Lp50 (fish, 96 hrs): 3,0-3,5.

**Mobility:-**

**Persistence and degradability: -**

**Bioaccumulative potential:** Phosphoric acid does not bioaccumulate.

**Other adverse effects:-**

## 13. Disposal considerations

**Product:** Should be disposed of in accordance with local regulations and national legislation.

**Contaminated packaging:** Should be disposed of in accordance with local regulations and national legislation.

## 14. Transport information

**UN number**

**ADR/RID:** 1805 **IMDG:** 1805 **IATA:** 1805

**UN proper shipping name**

**ADR/RID:** PHOSPHORIC ACID SOLUTION

**IMDG:** PHOSPHORIC ACID SOLUTION

**IATA:** Phosphoric acid, solution

**Transport hazard class**

**ADR/RID:** 8 **IMDG:** 8 **IATA:** 8

**Packaging group**

**ADR/RID:** III **IMDG:** III **IATA:** III

**Environmental hazards**

**ADR/RID:** no **IMDG Marine pollutant:** no **IATA:** no



## 15. Regulatory information

**Health, safety and environmental information shown on the label:**

**According to GHS (CLP):**



**Pictogram:**

**Signal word :**

Danger

**Hazard statements:** H314 Causes severe skin burns and eye damage

**Precautionary statements:** P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**According to European Directive 67/548/EEC as amended**

**Hazard Symbol:**



**Categories of danger:**

C, Corrosive.

**Risk phrases:**

R34 Causes burns.

**Safety phrases:**

S1/2 Keep locked up and out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

Show the label where possible.

**Further information:** This product meets the demands of ISO 4049 and MDD 93/42/EEC. The product is CE-marked.

## 16. Other information

### **Full wording of the phrases in section 3:**

Skin Corr. 1B Skin corrosion (Category 1B)

H314 Causes severe skin burns and eye damage.

**Sources of key data:** Swedish National Chemicals Inspectorate, Swedish Work Environment Authority, Eur-Lex European Union law. National Institute for Occupational Safety and Health (NIOSH). Occupational Safety and Health Administration (OSHA).

**The safety data sheet is revised in order to:** Classification and labelling according to Regulation (EC) No 1272/2008 and the European Directive 67/548 / EEC as amended.

The information in this safety data sheet is based upon our present knowledge. The information is presented with the intention of describing the safest way of handling the product. The safety data sheet is therefore not to be regarded as a complete chemical description of the product. Consequently, the user is responsible for making sure that the product is meant to be used in the actual field of application and that it serves the purpose intended.