

SAFETY DATA SHEET

Product name: ANA LINER

SDS Drawn up: 1999-06-26 SDS Revised: 2010-01-04

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

Trade name: ANA LINER
Chemical name:
Field of application: Dental adhesive
Supplier: Nordiska Dental AB
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Country: Sweden E-mail: mail@nordiskadental.se
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2. Hazards identification

Classification: Irritant (Xi, R36/37/38).

Adverse physicochemical effects:-

Adverse human health effects: Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

Adverse environmental effects:-

3. Composition / information on ingredients

Component	CAS-no	Einecs-no	Content (%)	Symbol letters*	R-phrases**
Bisphenol-A-diglycidyl ether methacrylate (bis-GMA)	1565-94-2	216-367-7	5-10	Xi	R36/37/38
Triethylene glycol dimethacrylate (TEDMA)	109-16-0	203-652-6	5-10	Xi	R36/37/38
Polyacrylic acid			5-10	Xi	R36/37/38
Ionomer cement filler			50		
Barium glass/silicon dioxide			24		
Catalyst			0-1		

*Symbol letters and categories of danger: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, N=Dangerous for the environment

** The full text of the phrase is listed under heading 16.

4. First aid measures

Inhalation: Get fresh air, in case of a long period of exposure.

Skin contact: Take off contaminated clothing. Wash off with soap and water.

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

Ingestion: 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: Foam, dry chemical powder, sand, carbon dioxide or water spray.

Extinguishing media which must not be used: Jet of water.

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

Special protective equipment: Protective equipment in compliance with national regulations.

6. Accidental release measures

Personal precautions: See to that the ventilation is sufficient. See to that the premises are properly aired.

Environmental precautions: Prevent the spillage from reaching the outlets.

Methods for cleaning up: Collect mechanically. Use inert materials with the capacity of binding liquids.

Spillage should be cured before disposal.

7. Handling and storage

Handling: The product should be handled with care and in accordance with strict hygiene practises, and in well-ventilated areas only.

Storage: Recommended storage temperature < 25°C. Store in a dark and cool place. Keep in a tightly closed glass-, metal- or solvent-resistant plastic container. 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:-

Exposure controls: All work should take place in well ventilated areas, 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:** Protective measures, e.g. a mask, could be needed.
- **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:-

Further information: Methacrylates may cause sensitization by skin contact. Therefore, avoid skin contact. Inhaling aerosols/dust containing methacrylates should also be avoided.

9. Physical and chemical properties

General information:

- Appearance: Slightly yellowish paste.
- Odour: Weak smell, similar to that of ester.

Important health, safety and environmental information:

- | | | | |
|---|--------------------|-----------------------------------|-------------------------------|
| · pH: | Ca. 3,5. | · Boiling point/interval: | > 150°C. |
| · Flash point: | > 150°C. | · Flammability (solid, gas): | - |
| · Explosive properties: | - | · Oxidising properties: | - |
| · Vapour pressure: | < 1 mbar (20°C). | · Density: | 1,3 g/cm ³ (20°C). |
| · Water solubility: | Ca. 30 g/L (20°C). | · Solubility in organic solvents: | - |
| · Vapour density: | 1 (air = 1). | · Evaporation rate: | - |
| · Partition coefficient: n-octanol/water: | - | · Viscosity: | - |

10. Stability and reactivity

Conditions to avoid: Heat and light. Decomposes at temperatures > 200°C.

Materials to avoid: Keep away from reducing agents, heavy metals and free radicals.

Hazardous decomposition products: Emits toxic fumes when set on fire.

Further information: Cures during exposure to visible- or UV-light.

11. Toxicological information

Dangerous-to-health effects and symptoms related to:

- **inhalation:** May be irritating to the respiratory organ.
- **ingestion:** May be irritating.
- **skin contact:** May be irritating to the skin. The substance may have an allergy-forming effect.
- **eye contact:** May be irritating.

12. Ecological information

Ecotoxicity: LD50 (oral, rat): > 11 000 mg/Kg.

Mobility:-

Persistence and degradability:-

Bioaccumulative potential:-

Other adverse effects:-

Further information: The ecological information on methacrylates is of limited extent.

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

Not regulated.

15. Regulatory information

Health, safety and environmental information shown on the label:

· **Symbol:**



· **Categories of danger:** Xi, Irritant.

· **Risk phrases:** R36/37/38 Irritating to eyes, respiratory system and skin.

· **Safety phrases:** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

Further information: The Safety Data Sheet according to REACH EC 1907/2006.

Classification, labelling and packing of substances and mixtures (CLP) EC 1272/2008.

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

16. Other information

R-phrases referred to under heading 2: R36/37/38 Irritating to eyes, respiratory system and skin.

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: meet the demands of the directive in REACH 1907/2006/EC.

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.