

SAFETY DATA SHEET

Product name: NANOSIT

SDS Drawn up: 2005-11-07 SDS Revised: 2010-01-04

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

Trade name: NANOSIT
Chemical name:
Field of application: Light-Cure Dental Composite
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
Country: Sweden E-mail: mail@nordiskadental.se
Emergency telephone: +46 431 443 360 Contact: Ewa-Lotte Pedersen

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**
Silanated Barium Glass	--	--	68	--	--
Bisphenol "A" Diglycidyl Metacrylate	3253-39-2	221-846-9	20	Xi	R36/37/38
1,6 Hexanediolm Dimetacrylate	6606-59-3	229-551-7	6	Xi	R36/37/38
Fumed Silica	112945-52-5	--	3	--	--
Ethyl 4 Dimethylaminobenzoate	10287-53-3	233-634-3	1	--	--
Camphoquinone	10373-78-1	233-814-1	0,4	--	--
Titanium Dioxide	13463-67-7	236-675-5	0,4	--	--
Dye (Iron Oxides)	--	--	0,4	--	--
2,4 Dihydroxy Benzophenone	131-56-6	205-029-4	0,4	--	--
Butylated hydroxyl toluene	--	--	0,4	--	--

*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 solvent-resistant and tightly closed 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 (latex) 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: | 7.0 | · Boiling point/interval: | - |
| · Flash point: | 300°C. | · Flammability (solid, gas): | - |
| · Explosive properties: | - | · Oxidising properties: | - |
| · Vapour pressure: | - | · Density: | - |
| · Water solubility: | - | · Solubility in organic solvents: | - |
| · Vapour density: | - | · Evaporation rate: | - |
| · Partition coefficient: n-octanol/water: | - | · Viscosity: | - |

10. Stability and reactivity

Conditions to avoid: Avoid elevated temperatures, and/or UV-light.

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

Stability: Product stable

Condition contributing to hazardous polymerization: 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): >5000 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: 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), Chemical data books, Dental restorative material books, ISO 4049 and ISO 14971.

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.