

Material-Safety Data Sheet (Directive 91/155/EEC)

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|--|--|---|-----------------|-------------------|--------------|
| 1 | <u>Names of Material, Preparation and Company</u> | | | | |
| | trade name: | DE Healthcare Calcium Hydroxide Radiopaque water-based calcium hydroxide | Art. no.: | 8014 | |
| | manufacturer/supplier address: | DE HEALTHCARE PRODUCTS ORPINGTON, KENT, U.K. 01634878750 EMERGENCY #: CHEMTREC (800) 424-9300 INTERNATIONAL: 703-527-3887 | Tel.: | +49-4721/6 33 77 | |
| | | | Fax: | +49-4721/6 19 32 | |
| | | | Tel.: | +49-47 21/6 33 77 | |
| | | | emergency call: | +49-47 21/6 33 77 | |
| <u>Composition/Details on Components</u> | | | | | |
| preparation: mixture of calcium hydroxide, zinc oxide, mineral oil, salicylic acid ester, barium sulfate | | | | | |
| description: self-curing radiopaque calcium hydroxide paste-paste-system | | | | | |
| hazardous ingredients: | | | | | |
| | name | CAS-No. | content | danger symbol | R-categories |
| | calcium hydroxide | 1305-62-0 | 50-52 % | Xi | 41 |
| 3 | <u>Possible Risks</u> | | | | |
| | designation of risk: | Xi, irritant | | | |
| | special details of risk (R-categories): | 41 | | | |
| | detrimental effects/symptoms: | causes serious damages of the eyes | | | |
| 4 | <u>First-Aid-Measures</u> | | | | |
| | general information: | | | | |
| | after inhalation: | fresh air, in case of indisposition or nausea contact a doctor | | | |
| | after skin contact: | rinse thoroughly with plenty of water | | | |
| | after eye contact: | rinse thoroughly with water, contact a doctor | | | |
| | after swallowing: | contact immediately a physician | | | |
| | information for the attending physician: | material for dental or laboratory use only | | | |
| 5 | <u>Fire Fighting Measures</u> | | | | |
| | suitable fire extinguishing agents: | foam, carbon dioxide, powder fire extinguishers | | | |
| | unsuitable fire extinguishing agents: | water | | | |
| | particular hazards: | none | | | |
| | fire fighting protective equipment: | no data available | | | |
| 6 | <u>Measures in Case of Unintended Release</u> | | | | |
| | measures related to persons: | avoid eye and/or skin contact | | | |
| | environmental measures: | do not let the material get in contact with sewerage systems | | | |
| | procedures of cleaning/uptake | take up mechanically, use common absorbents | | | |
| | additional information: | none | | | |
| 7. | <u>Handling and Storage</u> | | | | |
| 7.1 | handling: | only by qualified staff in dental offices or dental laboratories | | | |
| | instructions for safe handling: | see instructions for use | | | |
| | instructions on fire and explosion protection | no special measurements are required | | | |
| 7.2 | Storage: | tightly closed at room temperature | | | |
| | demands on storerooms and containers | store in good ventilated rooms and areas | | | |
| | indications and prohibitions of storage together with other materials: | do not store together with food | | | |
| | further details on storage conditions: | keep out of the reach of children | | | |

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EC-Safety Data Sheet
according to: 91/155/EEC
trade name: Radiopaque water-based calcium hydroxide

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date: 07.07.95/01
revised on: 01/02/2012

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| 8 | <u>Exposition Restriction and Personal Protective Equipment</u> | | | |
| 8.1 | additional information on the equipment of technical facilities: none | | | |
| 8.2 | components with limiting values related to place of work: | | | |
| | CAS-No. | name | kind | value unit |
| | additional information: hazards related to place of work are not known. | | | |
| 8.3 | personal protective equipment: | | dental office or laboratory working clothes | |
| | breathing protection | | do not breathe or inhale vapour or dust | |
| | hand protection: | | use of protective gloves is recommended | |
| | eye protection: | | use of protective glasses is recommended | |
| | body protection: | | | |
| | protective and hygiene measures: | | washing hands | |
| 9 | <u>Physical and Chemical Properties</u> | | | |
| 9.1 | appearance: | | paste/paste | |
| | form: | | pasty/pasty | |
| | colour: | | white to yellowish (both) | |
| | odour: | | specific | |
| 9.2 | safety data: | | tested acc. to: | |
| | pH upon delivery: | | no data available | |
| | pH of 10g/l H ₂ O and 20°C: | | no data available | |
| | change of state: | | no data available | |
| | boiling point/area: | | no data available °C | |
| | melting point/area: | | no data available °C | |
| | flash point: | | no data available °C | |
| | inflammability: | | no data available | |
| | ignition temperature: | | no data available °C | |
| | autoignition: | | no data available | |
| | fire advancing properties: | | no data available | |
| | explosion hazards: | | no data available | |
| | explosion limits: LEL: | | UEL: no data available | |
| | vapour pressure (°C) | | no data available | |
| | density (°C) | | no data available hPa | |
| | bulk density: | | no data available | |
| | solubility in water (20°C) (°C): | | no data available mg/l | |
| | in (°C) | | no data available mg/l | |
| | solubility in fat: | | no data available | |
| | distribution coefficient n-octanol/water: | | no data available | |
| | viscosity (°C): | | no data available | |
| | solvent separation test: | | no data available % | |
| | solvent content: | | no data available % | |
| 9.3 | further particulars: | | none | |
| 10 | <u>Stability and Reactivity</u> | | | |
| | conditions to be avoided: | | strong acid conditions | |
| | materials to be avoided: | | strong acids and their salts | |
| | hazardous products of decomposition: | | none if used in the recommended way | |
| | further particulars: | | none | |

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| 11. Toxicological Data | | | | | | |
| 11.1 toxicological Test: no data available | | | | | | |
| acute toxicity: no data available | | | | | | |
| LD ₅₀ /LC ₅₀ : | component | kind | value | species | method of determination | |
| specific symptoms in animal test: | | | no data available | | | |
| irritant effect/corrosive action: | | | no data available | | | |
| sensitization: | | | no data available | | | |
| effects of repeated exposure or overexposure (subacute or chronic toxicity): | | | no data available | | | |
| carcinogenic and mutagenic effects hazardous to reproduction: | | | no data available | | | |
| other particulars: | | | no data available | | | |
| 11.2 practical experience: | | | no data available | | | |
| observations relevant to classifications: | | | no data available | | | |
| other observations: | | | no data available | | | |
| 11.3 general remarks: during long-standing product application risks have not become known. | | | | | | |
| 12 Ecological Data | | | | | | |
| 12.1 information on elimination: no data available | | | | | | |
| procedure | | analytic method | | degree of elimination | | classification |
| evaluation: | | no data available | | | | |
| additional information: | | no data available | | | | |
| 12.2 behaviour in environmental compartments: no data available | | | | | | |
| mobility and bioaccumulation potential: | | no data available | | | | |
| additional information: | | none | | | | |
| 12.3 environmental toxic effects: no data available | | | | | | |
| aquatic toxicity: | | no data available | | | | |
| organism | | test period | test method | result | assessment | |
| behaviour in sewage plants: | | no data available | | | | |
| respiratory inhibition of local vitalised sludge: | | no data available | | | | |
| 12.4 additional information: | | none | | | | |
| CSB-value: | | no data available | | mg/g | | |
| BSB ₅ -value: | | no data available | | mg/g | | |
| AOX-indication: | | no data available | | | | |
| contains the following heavy metals and compounds (corresponding to guideline 76/464/EWG) according to preparation formula: none | | | | | | |
| general information: none | | | | | | |
| 13 Disposal Instructions | | | | | | |
| 13.1 product: | | | | | | |
| recommendation: | | obey local and governmental regulations | | | | |
| waste category | | waste name | | accountability | | |
| 13.2 uncleaned packing material: | | | | | | |
| recommendation: | | obey local and governmental regulations | | | | |
| cleaning agents: | | common cleansing agents for the laboratory | | | | |

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| 14 | <u>Particulars on Transport</u> | | |
| 14.1 | land carriage: | | |
| | ADR/RID/GGVS/GGVE-class: | figure/letter: | material no.: |
| | warning label: | risk no.: | |
| | designation of goods: | | |
| | remarks: | | |
| 14.2 | inland transport by ship: | | |
| | ADN/ADNR-class: | figure/letter: | category: |
| | designation of goods: | | |
| | remarks: | | |
| 14.3 | see transport: | | |
| | IMDG/GGV sea class: | UN-No.: | PG: |
| | EMS: | MFAG: | |
| | marine pollutant: | | |
| | correct technical name: | | |
| | remarks: | | |
| 14.4 | air transport: | | |
| | ICAO/IATA-class: | UN/ID-No.: | PG: |
| | correct technical name: | | |
| | remarks: | | |
| 14.5 | further particulars: No hazardous goods within the meaning of transport regulations | | |

| | | | |
|-------------|---|-------------------|--|
| 15 | <u>Regulation</u> | | |
| 15.1 | marking: acc. to governmental regulations concerning declaration of dangerous chemicals no marking is prescribed | | |
| | danger symbol and designation: none | | |
| | contains: | | |
| | R-categories: | none | |
| | S-categories: | none | |
| | special marking of particular preparations: none | | |
| 15.2 | national regulations: acc. to article 10 of Directive 66/379 EEC and 67/548 EEC | | |
| | restrictions of employment: | none | |
| | instructions in case of interference: | none | |
| | classification acc. VbF: | not applicable | |
| | technical instruction air: | not applicable | |
| | water pollution class: | no data available | |
| | other regulations, restrictions and prohibitions: Directive 91/155 EEC; medical product acc. to 93/42 EEC (medical products). | | |
| 16 | <u>Other Particulars</u> | | |
| | All information above has been given according to our present state of knowledge. It has been compiled to the best of our knowledge. The above -mentioned data do not represent a guarantee on characteristics. They only describe the safety requirements with regard to our products. They do not represent an assurance of product characteristics in the meaning of guarantees. | | |