

[NEO DENTAL INTERNATIONAL]

Safety Data Sheet

Section 1: Identification

VITAPEX
General Use: Root canal filling material
MSDS Number: N001
Supplier: Name: Neo Dental International, Inc.
Address: 1112 So 344th Street, # 311 , Federal Way WA 98003
Tel: 1-253-946-0814 Fax: 1-253-946-0885
Manufacturer: Name: Neo Dental Chemical Products Co., Ltd.
Address: 3-1-3, Hiroo Shibuya-ku, Tokyo 150-0012 Japan
Tel: 81-3-3400-3768 Fax: 81-3-3499-0613

Section 2: Hazard(s) Identification

Chemical Name CAS Level Classification
Iodoform 75-47-8 40 – 50 % Xi; R36/R38
Toxicological Data on Ingredients:
Iodoform: ORAL (LD₅₀): Acute: 355 mg/kg [Rat]. 470 mg/kg [Mouse]. 450 mg/kg [Rabbit]. DERMAL (LD₅₀): Acute: 1184 mg/kg [Rat]. DUST (LC₅₀): Acute: 165 p.p.m. 7 hours [Rat].
Calcium hydroxide 1305-62-0 30 – 40 % C; R34
Toxicological Data on Ingredients:
Calcium hydroxide: ORAL (LD₅₀): Acute: 7340 mg/kg [Rat.]. 7300 mg/kg [Mouse].
Hazard indications
Xi: Irritant
C: Corrosive
“R” phases
R34: Causes burns
R36/38: Irritation to eyes and skin

Section 3: Composition/Information on Ingredients

Emergency Overview: May cause burns and irritations
Potential Health Effects: Minimal hazard under normal conditions of use
Inhalation: N/A (paste type)
Eye: Very hazardous in case of eye contact (irritant)
Skin: Hazardous in case of skin contact (irritant)
Ingestion: Iodine poisoning
Chronic Toxicity/Carcinogenicity: Not available.

Medical Conditions Aggravated by Exposure: Not available

Section 4: First-Aid Measures

Eye contact: Immediately flush eyes with plenty of water. Get medical attention.

Skin contact: Wipe up with cotton soaked with alcohol and wash with soap and water.
If appropriate, get medical attention.

Ingestion: Wash mouth out with water. Get medical attention immediately.

Section 5: Fire-Fighting Measures

Extinguish media: Water

Hazard identification: Corrosive and toxic Iodine gas is generated by heat in fire.

Extinguish measure: Remove the container to the safety area immediately, if not possible, cool container and surrounding area with water spray.

Protection for personnel: Wear protective equipment for fire-fighting..

Section 6: Accidental Release Measures

Personal precautions: Avoid contact with skin and eyes. Ventilate properly.

Environmental precautions: Do not dispose into drains or the environment.

Clean up methods: Collect mechanically and wipe up with cotton soaked with alcohol.

Prevention measures: Keep away from fire..

Section 7: Handling and Storage

HANDLING

Technical measures: Wear gloves to avoid direct contact with skin

Precautions: Handle in well-ventilated area.

Recommended Storage: Keep tightly closed in the original syringe.

Avoid temperatures above 37°C and direct sunlight.

Section 8: Exposure Controls/Personal Protection

Exposure limit: Not established

Respiratory protection: Air-purifying respirator (for halogen)

Hand protection: Gloves

Eye protection: Safety glasses or goggles

Skin and body protection: Protective clothing

Section 9: Physical and Chemical Properties

Appearance: Oily paste

Color: Yellow

Odor: Iodoform odor

pH: N/A (Water-insoluble)

Boiling point: N/A

Melting point: N/A

Flash point: N/A

Decomposition temperature: 120°C (Iodoform), 580°C (Calcium hydroxide)

Solubility: Can be dissolved in Ethanol

Specific gravity: About 2.0

Section 10: Stability and Reactivity

Stability: Stable when stored under recommended conditions.
At 120°C, it is decomposed and generates Iodine gas.
Conditions to avoid: Temperature > 37°C, direct sunlight exposure

Hazardous decomposition products: Iodine gas

Section 11: Toxicological Information

Acute oral effects: LD₅₀ 2800 – 3800 mg/kg
Chronic effects: Chronic overdose may cause Iodine poisoning. (Iodoform)
Local effects: May cause allergic reactions such as:
hives, papula, skin burns and/or itching.
Sensitization: May cause sensitization by skin contact

Mutagenicity: Cyt-rat/ast: 1200 mg/kg (Calcium hydroxide).

Section 12: Ecological Information* (non-mandatory)

- Ecotoxicity: TLm96: 1000 – 10 p.p.m. (Calcium hydroxide)

Section 13: Disposal Considerations* (non-mandatory)

- Dispose in accordance with governmental and/or local regulations.

Section 14: Transport Information* (non-mandatory)

- Conditions to avoid: Temperature > 37°C

Section 15: Regulatory Information* (non-mandatory)

- Please refer to national measures that may be relevant.

Section 16: Other Information

- Do not use this product for the patient with past history of allergy and irritation to Iodine compounds.
- This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Neo Dental Chemical Products Co., Ltd. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process.
Neo Dental Chemical Products Co., Ltd. assumes no legal responsibility for use of or reliance upon this information.

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*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).