

Product Name: SODIUM HYPOCHLORITE

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1- Product Identification

Product Name : Sodium Hypochlorite 3%/5.25%
Product Code : SHM/SHS
Product Description : Root canal irrigation solution
Packing Available : 500ml/250ml

1.2- Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Root canal irrigation solution. Used by dental professional only. For dental use only.

1.3- Details of the supplier of the safety data sheet

Manufacturer : Prime Dental Products Pvt Ltd.
Address : Plot No. A-148, Road No. 24, MIDC, Wagle Industrial Estate, Thane
(West)- 400604, Maharashtra, India
Email : info@prime-dental.in
Web : www.prime-dental.in

1.4- Emergency contact details

Telephone : +919272235922 / +919272235925

SECTION 2: Composition/information on ingredients

2.1- Mixture

Component	C.A.S.	EINECS	Classification*	Weight%	LD50
Sodium Hypochlorite	7681-52-9	NA	NA	3-5.5	NA

NA- Not Available

*For wording of the listed 'R' phrases and 'H' statements see section 16

SECTION 3: Identification of Hazards

Acute Toxicity: Corrosive and strongly irritating to the eyes, skin and respiratory tract. Inhalation or fumes may cause pulmonary adema. Ingestion may cause burns to the mouth and digestive system and abdominal distress.

Chronic Toxicity: No Data available

SECTION 4: First aid measures

4.1- Description of first aid measures

Contact with skin: Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. Seek medical attention immediately.

Contact with eyes: Immediately flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue.

Ingestion: Give water or milk. DO NOT induce vomiting. Consult a physician if ingested in large amounts.

Inhalation: Remove to fresh air. If breathing is difficult have qualified person administer oxygen. If respiration stops, give artificial respiration. Get medical attention immediately.

SECTION 5: Fire-Fighting Measures

5.1- Recommended extinguishers: Water, CO₂, foam, or chemical powders, depending on the materials involved in the fire. Fight large fires with water spray or alcohol resistant foam.

5.2- Extinguishers not to be used: Not known

5.3- Risks arising from combustion: Sodium Hypochlorite or its solutions decompose when heated. Decomposition products may cause containers to rupture or Explode Vigorous reactions is possible with organic materials or oxidizing agents and may result in fire.

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5.4- Protective equipment: Use self-contained breathing apparatus and full protective equipment. Acid contamination will produce very irritating fumes similar to chlorine

SECTION 6: Accidental Release Measures

6.1 Measures for personal safety: Wear protective equipment. Keep unprotected person away.

6.2 Measures for environmental protection: Do not allow product to reach sewage system or any water courses.

6.3 Measures for cleaning/collecting: Flush with water to dilute as much as possible and pump into polyethylene containers for disposal. Avoid heat and contamination with acid materials. Do not use combustible materials such as sawdust to absorb Sodium Hypochlorite Solution.

SECTION 7: Handling and Storage

7.1-Handling product: Is intended for dental use only.

7.2- Information for safe handling: No special measures required. Observe normal care for working with chemicals.

7.3- Information about fire and explosion protection: No special measures required.

7.4- Storage requirements to be met by storerooms and receptacles: Store only in the original receptacle.

7.5- Information about storage in one common storage facility: Do not store adjacent to chemicals that may react if spillage occurs, Comply with DOT regulations when shipped, if closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition). Do not mix or contaminate with ammonia hydrocarbons, acids, alcohols or ethers.

7.6- Further information about storage conditions: Protect from heat and direct sunlight and exposure to light.

SECTION 8: Exposure Controls/Personal Protection

8.1- Additional information about design of technical facilities: No further data; see section 7.

8.2- Ingredients with limit values that require monitoring at the workplace:

PEL: 1ppm as Cl₂

TLV/TWA: 1 ppm as Cl₂

8.3- Personal protective equipment:

a. Respiratory protection : NIOSH /MSHA approved respirator following manufacture's recommendations should be used as a precautionary measure where airborne contaminants may occur.

b. Protection of hands : Wear impervious gloves such as rubber, neoprene or vinyl

c. Eye protection : Safety glasses

d. Body protection : Wear impervious protective clothing including rubber safety shoes. Eye wash facility and emergency shower should be in close proximity

SECTION 9: Physical and Chemical Properties

9.1- Physical Properties:

Form : Liquid

Color : Yellowish

Odour : Chlorine

9.2- Chemical Properties:

Melting point/Melting range : 30.5°C

Boiling point/Boiling range : 220°C

Ignition temperature : Undetermined

Flash point : Not applicable

Self-igniting : Product is not self-igniting.

Danger of explosion : Product does not present an explosion hazard.

Density : 1.1-1.2 g/ml

Solubility in / Miscibility with Water : Miscible

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SECTION 10: Stability and Reactivity

10.1- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.2- Dangerous reactions: Strong oxidizer- stability decreases with concentration, heat, light, decrease in pH and contamination by metals

10.3- Dangerous decomposition products: Acid fumes

10.4- Avoid: Exposure to heat and direct sunlight/light

SECTION 11: Stability and Reactivity

11.1- Acute toxicity- Not available

SECTION 12: Ecological Information

12.1- Environmental data: This pesticide is toxic to fish and aquatic organisms. For further information contact Env. Dept.

SECTION 13: Disposal Consideration

13.1- Product Recommendation: Dispose of contents/ container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport Information

Hazard classification	: ORM-D
UN Number	: 1791
Class Number	: 8
14.1- Air (ICAO/IATA)	
Primary Hazard Class/Division	: Not known
14.2- Road (RID/ADR)	
Primary Hazard Class/Division	: Not known
14.3- Vessel (IMO/IMDG/RID/ADR)	
Primary Hazard Class/Division	: Not known
Remarks	: Qualifies for CFR 173.154 Consumer commodity exception

SECTION 15: Regulatory Information

Material is contained on a composite list as required under 101 (14) of CERCLA. Sodium Hypochlorite solution is regulated by the USEPA under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as a pesticide product.

SECTION 16: Additional Information

16.1- 'R' phrases and 'H' statement: Not available

16.2- Prepared by: Tanay Thakkar

16.3- Manufacturer Disclaimer: For Dental Use Only, Use as directed.

The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate; however, Prime Dental Products Pvt Ltd, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof.

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Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.
