

Material Safety Data Sheet

MSDS: Hypo

Date of Issue: June 2004

Supersedes Issue Date: May 1992

Hypo

Company Details

Nutech Paint Pty Ltd (A.B.N. 94 242 116 396)
4 Keppler Circuit, Seaford, Victoria 3198, Australia
Tel: (03) 9775 1491 Fax: (03) 9775 1680
Emergency Telephone 000

Product Identification

This product is classified as hazardous according to criteria of Worksafe Australia

Product Name: Hypo
Other Names: Sodium Hypochlorite, Hypo Roof Tile Treatment, Nutech Hypo
Shipping Name: Sodium Hypochlorite Solution
U.N. Number: 1791
D.G. Class: 8
Subsidiary Risk: N/A
Hazchem Code: 2R
Packaging Group: III
Poisons Schedule: S5
Chemical Description: Sodium Hypochlorite
Use: Bleaching & removing moss, lichen & fungus from concrete and masonry surfaces

Physical Description / Properties

Appearance: Colourless to yellow clear liquid
Odour: Distinctive odour
Boiling Point (°C): Decomp.
pH: Alkaline
Specific Gravity: Range 1.1 - 1.2
Shelf Life: N/A
Flammability Limits: See 'Fire/Explosion Hazard' under "Safe Handling Information"
Solubility in Water: Soluble
Solubility in Organic Solvents: Not soluble
Vapour Pressure (kPa): N/A
Flash Point (°C): Non flammable
Volatile Component: Hydrogen Chloride Gas

Ingredients

<u>Chemical Entity</u>	<u>C.A.S. Number</u>	<u>Proportions %</u>
Sodium Hypochlorite	7681-52-9	5 - 16
Water		to make 100%

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Health Hazard Information

Health Effects

Effects of Overexposure – Acute

Highly corrosive to eyes. High vapour concentration will irritate eyes. Contact with skin, mucous membranes and respiratory tract will cause irritation. An asphyxiate. If swallowed can cause vomiting and nausea. Severe burns to mouth, throat and stomach.

Effects of Exposure – Chronic

Prolonged exposure may cause chronic dermatitis, bronchitis, pneumonia and pulmonary oedema

Emergency and First Aid Procedures

Swallowed

Thoroughly rinse mouth with water, give plenty of water or milk to drink and do not induce vomiting. If vomiting occurs, give more water. Seek medical attention.

Eye

Immediately hold open eyes and flush with water continuously for at least fifteen minutes. Seek immediate medical attention.

Skin

Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation, swelling, redness or blistering occurs seek medical attention.

Inhaled

Remove to fresh air and keep warm. If not breathing apply artificial respiration. Keep at rest and seek medical attention.

Advice to Doctor

Ingestion release hypochlorous acid which is irritating to mucus membranes and skin. Buffer the acid by administration of antacids. Treat symptomatically.

Precautions for Use

Exposure Standards

Decomposition product, Chlorine TLV 3 mg/m³ 1 ppm peak Worksafe Aust

Engineering Controls

Maintain concentration below peak limit even instantaneously.

Ventilation

Use in well ventilated area or use local exhaust - face velocity > 20 m/min.

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Precautions for Use continued

Personal Protection

Gloves: Long impervious PVC, neoprene or nitrile
Overalls: Cotton
Eyes: Chemical goggles resistant to aromatic hydrocarbon solvents
Respiratory: Class B (inorganic vapour) combination particulate/gas respirator
Other: Rubber boots and splash apron advisable

Other Precautions

Reacts vigorously with acids producing dangerous levels of gaseous chlorine. Incompatible with amines, ammonium salts, aziridine, methanol & phenylacetonitrile. Reacts with metal salts, peroxides and reducing agents.

Flammability

Non-Flammable Liquid. May react with metals producing hydrogen gas.

Safe Handling Information

Storage and Transport

Store in a cool place and out of direct sunlight. Store in a well ventilated area and away from oxidants and foodstuffs. Keep containers sealed and protected from physical damage. Not to be loaded with Class 1, 4.3, 5.1, 5.2, 6, 7, foodstuffs and foodstuff empties. (where the Class substance is a cyanide and the Class 8 is an acid).

Spill

Clear area of all unprotected personnel. Increase ventilation. For small spills flush to sewer as a greatly diluted solution. For large spills notify Emergency Services. Isolate leaking containers and stop leak if safe to do so. Flush small spills to drain and contain large ones. Wear protective clothing. Avoid breathing vapours. Ventilate confined spaces or use breathing apparatus for prolonged periods. Refer to appropriate State Waste Disposal Authority.

Waste Disposal

Observe all Federal, State and Local regulations. Dispatch sealed labelled material to approved waste authority.

Fire / Explosion Hazard

Explosion Limit Upper:	N/A
Explosion Limit Lower:	N/A
Flammability:	Non-flammable. Contact with strong alkalis may generate heat
Hazardous Decomposition Products:	On heating emits toxic fumes
Hazardous Products:	Hydrogen Chloride. Reacts with metals to produce hydrogen (a flammable gas)
Extinguishing Media:	Water fog or spray. Cool drums with water spray
Other Precautions:	Fire fighter should wear self-contained breathing apparatus in fire situations.

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Safe Handling Information continued

Contact Points

Nutech Paint Pty Ltd:	(03) 9775 1491
Poisons Information Centre:	131 126
Fire Brigade:	000
Ambulance:	000
Police:	000

Key to Abbreviations

N/A	Not applicable
NAS	Not assigned
°C	Degrees Celsius
k/Pa	Kilopascals
m/min	

We cannot anticipate all conditions under which this information and our products may be used. Users are advised to make their own tests to determine the safety and suitability of each product. All information in this Data Sheet is as up to date as possible. No warranty expressed or implied is made to the accuracy, reliability or completeness of this data. Nutech assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.