



MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

SODIUM CHLORIDE (powder)

Synonyms – Sea salt, table salt.

Product Code – NaClS, NaClD20, SODCH3, SODCH5, SODCH500.

Recommended use – Laboratory reagent.

Section 2: HAZARDS IDENTIFICATION

Classified as a **NON-Hazardous** substance according to criteria of **MOHSC**.

Classified as a **NON-Dangerous** good according to the **ADG Code** for the Transport of Dangerous Goods by Road and Rail.

R Phrases None allocated.

S Phrases 536/57/39 – Wear suitable protective clothing, gloves and eye/face protection.

Section 3: COMPOSITION INFORMATION

Chemical Name	CAS Number	Concentration
Sodium Chloride (Refined Salt)	7647-14-5	100%

Section 4: FIRST AID MEASURES

Eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention if irritation develops.
Skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
Inhalation	Remove patient to fresh air. If breathing stops, apply artificial respiration and seek medical attention.
Ingestion	DO NOT induce vomiting. Wash mouth out with copious amounts of water. Give plenty of water to drink.
First aid facilities	Eye wash station, safety shower and First Aid kit.
Advice to Doctor	Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

Suitable extinguishing media Use media suitable for other material involved in fire.

Hazards for combustion products	Toxic gases may evolve.
Special protective precautions and equipment for fire fighters	Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.
Hazchem code	Not applicable.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures	Wear appropriate protective clothing. Ensure adequate ventilation. If possible contain the spill.
Clean up methods	Sweep up and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Do not contaminate drains or waterways.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Use only in an adequately ventilated area. Avoid breathing in dust. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.
Conditions of safe storage	Store in a cool, dry, well-ventilated area in corrosion-resistant containers away from incompatibles. Keep container tightly closed. Hygroscopic.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards	Not available for this product. Dust not otherwise specified is [TWA] 10mg/m ³ .
Biological Limit Values	Not available for this product.
Engineering Controls	Ensure adequate ventilation.
Personal Protective Equipment	Safety glasses or goggles, chemical-resistant gloves and laboratory coat.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, transparent crystals or white crystalline powder
Odour	Not available
pH	6.7 - 7.3 (aqueous solution)
Vapour pressure	1.32hPa @ 885°C
Vapour density	Not available
Boiling point	1413°C
Melting point	801°C
Solubility	Soluble
Specific gravity	2.165
Information for flammable materials	Non combustible material
Upper and lower flammable limits in air	Not applicable

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended conditions for use and storage. Hygroscopic: absorbs moisture or water from the air.
Conditions to avoid	Extremes of temperature, dust generation, exposure to moist air or water and incompatible materials.
Incompatible materials	Strong oxidisers, metals, strong acids, alkali metals (Lithium), Bromine Trifluoride, Nitro compounds, Dichloromaleic Anhydride and Urea.
Hazardous decomposition products	Toxic gases may evolve.
Hazardous reactions	Polymerisation will not occur.

Section 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

Acute:	Eye Contact	May cause mild to moderate irritation, redness and stinging.
	Skin Contact	May cause mild skin irritation or irritation to damaged skin resulting in redness and itching.
	Inhalation	Can cause mild irritation to mucous membranes and upper respiratory tract.
	Ingestion	Ingestion of large amounts can cause irritation, nausea, vomiting and irritation to the mucous membranes of the mouth, throat and oesophagus. May affect behaviour, sense organs, metabolism and cardiovascular system. No toxic effects to be expected when handled appropriately.

TOXICITY DATA: Oral – LD₅₀ (Rat): 3000 mg/kg
Dermal – LD₅₀ (Rabbit): >10,000 mg/kg
Inhalation – LC₅₀ (Rat): >42,000 mg/m³/1h

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	No expected problems when used with due care and attention.
Persistence and degradability	Not applicable to inorganic substances.
Mobility	Passage from aqueous solution into the atmosphere is not expected.
Environmental fate (exposure)	Do not contaminate drains and waterways.
Bioaccumulative potential	Not expected to bio-accumulate.

Section 13: DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose of in accordance with local authority guidelines.
Special precautions	Nil.

Section 14: TRANSPORT INFORMATION

Classified as NON-Dangerous Goods by the criteria of the Australian Dangerous Goods Code.

UN Number	Not applicable
UN Proper shipping name	Not applicable
Class and subsidiary risk	Not applicable
Packing group	Not applicable
Special precautions	Not applicable
Hazchem code	Not applicable

Section 15: REGULATORY INFORMATION

- Not a Scheduled Poison.
- **TWA (Time Weighted Average):** The average airborne concentration of a particular substance when calculated over a normal 8-hour working day, for a five day week.

Section 16: OTHER INFORMATION

Release Information

Date of preparation	23 February 2015
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