



SAFETY DATA SHEET

ROCK SALT

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CAS NUMBER : 7647-14-5
PROPER SHIPPING NAME : Not regulated
UN NUMBER : Not regulated

PRODUCT USE: Used as a condiment and food preservative (food grade). It is the major source of industrial chlorine and sodium hydroxide. It is used in the manufacture of pulp and paper, to set dyes in textiles and fabric, to produce soap, detergents, home water softeners, curing of hides, highway de-icing, herbicides, nuclear reactors and super cooled solutions. Used for animal salt licks.

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Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation and GHS 7th Edition

EMERGENCY OVERVIEW

Non-hazardous.

May cause irritation following contact with the eyes or abraded skin.

Adverse ecological effects are not known or expected.

PRECAUTIONARY STATEMENTS

Avoid generating excessive dust.

Do not breathe dust.

If in contact with eyes, rinse thoroughly.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%	HAZARDOUS
Sodium chloride	7647-14-5	>90	Yes

SYNONYMS: Halite; Salt; Sodium chloride.

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Section 4 - FIRST AID MEASURES

SWALLOWED

Rinse mouth with water and spit the fluids out. Give a glass of water to drink. If vomiting occurs, give further water to drink. First aid is not generally required. If in doubt or if large amounts have been swallowed, contact the Poison Centre (0800 764 766) or a doctor.

EYE

Flush eyes with running water for several minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Get medical attention if irritation persists.

SKIN

Brush dry material from clothing and skin. Wash skin with soap and water. If symptoms develop or persist seek medical advice.

INHALED

If inhaled, remove to fresh air. Keep warm and at rest. If symptoms develop seek medical advice.

NOTES TO PHYSICIAN

Treat symptomatically based on individual reactions of patient and judgement of doctor.

NOTE: In an emergency dial 111, for advice contact a Poison Centre (0800-764-766).

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use extinguishing media suitable for surrounding area; water spray, dry chemical, foam or carbon dioxide.

FIRE FIGHTING

Alert Fire Brigade and tell them location and nature of hazard.

Clear fire area of all non-emergency personnel.

Stay upwind. Eliminate ignition sources.

Wear breathing apparatus plus protective gloves.

Prevent spillage from entering drains or water courses.

Use firefighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

Non-combustible solid.

HAZARDS FROM COMBUSTION PRODUCTS

Salt withstands temperatures up to its melting point and beyond without decomposing, but at temperatures greater than approximately 800°C irritating and toxic fumes of chlorine and sodium oxide may be emitted.

PERSONAL PROTECTIVE EQUIPMENT

Firefighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves).

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SPILL RESPONSE

Avoid generating dust. Increase ventilation. Move upwind.

Evacuate all unnecessary personnel.

Personnel involved in the clean-up should wear protective clothing.

Stop leak if safe to do so.

Sweep and shovel up; collect in a labelled chemical waste container and seal for reuse or disposal. See section 13 of the SDS.

Do NOT let product reach drains or waterways. In large quantities may be damaging to plants. If a significant amount does enter a waterway advise your local waste authority.

Wash spill area with plenty of water after removal of contaminant.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

Use good occupational work practice.

Avoid prolonged or repeated exposure.

Avoid generating and breathing dust. Avoid contact with eyes and abraded skin.

Avoid contact with incompatible materials. Avoid physical damage to containers.

Handle and open container with care. Use in a well-ventilated area.

Always wash hands with soap and water after handling.

Ensure an eye bath is available and ready for use.

SUITABLE PACKAGING

Store in original packaging.

Polyethylene coated paper bags, or polyethylene/propylene big bags.

Check all packaging is clearly labeled and free from leaks.

STORAGE INCOMPATIBILITY

Avoid storage with incompatible materials including oxidizing agents, acids, bromine trifluoride, dichloromaleic anhydride plus urea, lithium, nitrogen compounds and ignition sources.

STORAGE REQUIREMENTS

Store in a cool, dry place away from Dangerous Goods and Toxic Substances.

Absorbs moisture if relative humidity is above 75%.

Store in a well-ventilated area.

Keep storage area free of debris, waste and combustibles.

Keep containers securely sealed.

Protect packaging against physical damage.

Protect from sunlight and moisture exposure.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	Measurement	Limit
New Zealand WES 2019	total dust	time weighted average (TWA)	10 mg/m ³
New Zealand WES 2019	respirable dust	time weighted average (TWA)	3 mg/m ³

No exposure limits set by WorkSafe New Zealand or Safe Work Australia.

ENGINEERING CONTROLS**VENTILATION SYSTEM**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Refer to 'A simple guide to local exhaust ventilation' found on the WorkSafe New Zealand website.

PERSONAL PROTECTION EQUIPMENT (PPE)**PERSONAL RESPIRATORS**

An approved dust mask e.g. a P1 respirator is recommended when using this product in dusty conditions. See Australian/New Zealand Standard, AS/NZS 1715:2009 and AS/NZS 1716:2012.

SKIN PROTECTION

Wear impervious protective clothing, including covered shoes, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EYE PROTECTION

Use safety glasses with side-shields, or goggles to prevent exposure.
Maintain eye wash fountain and quick-drench facilities in work area.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE**

White or pinkish to light brown coarse crystals or large lumps.

PHYSICAL PROPERTIES

PROPERTY	VALUE
State:	Solid
Odour:	Odourless
Molecular Weight:	58.44
Melting Range (°C):	802
Boiling Range (°C):	1461
Solubility in water (g/L, 20°C):	358
pH (100g/L, 20°C):	4.5-7.0
Bulk density (kg/m ³):	~1.140
Density (g/cm ³):	2.17
Volatile Component (%vol):	Not available
Relative Vapor Density(air=1):	Not available
Vapour Pressure (hPa, 865°C):	1.3
Autoignition Temp (°C):	Not applicable
Flash Point (°C):	Not applicable
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Decomposition Temp (°C):	Not available
Viscosity:	Not applicable
Evaporation Rate:	Not applicable

Section 10 - CHEMICAL STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Product is stable under normal conditions of use, storage and temperature. Hygroscopic, absorbs moisture above 75% humidity.

CONDITIONS TO AVOID

Avoid excessive heat, direct sunlight, moisture, and temperature extremes.

INCOMPATIBLE MATERIALS

Incompatible with oxidizing agents, acids, nitrogen compounds and ignition sources. Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas. Possible violent reaction on contact with bromine trifluoride. Explosive reaction with dichloromaleic anhydride plus urea above 118°C. Releases

violent flammable sodium on burning with lithium. May form explosive compounds under electrolysis conditions. In wet conditions may corrode metals particularly iron, aluminium and zinc.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition can lead to release of toxic fumes of chloride and sodium oxide.

HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

SWALLOWED

High concentrations produce inflammatory reactions in the gastrointestinal tract and can cause vomiting, diarrhoea, convulsions and collapse. The ingestion of hypertonic solutions can cause fatal disturbance of body electrolyte and fluid balance particularly in the young and elderly. Less than a tablespoon of salt may severely poison an infant and sometimes prove fatal.

EYE

Causes eye irritation, redness and pain.

SKIN

Irritating to damaged skin. May cause irritation following prolonged contact.

INHALED

Very high concentrations of salt dust may result in inflammation of the mucous membranes of the respiratory tract.

CHRONIC HEALTH EFFECTS

Long term ingestion of excessive amounts of sodium chloride can lead to an increased risk of raised blood pressure and increased calcium losses. The recommended daily intake of Sodium for men and women (19-70+ years) is 920-2300 mg/day.

TOXICITY AND IRRITATION DATA

TOXICITY

Acute Oral Toxicity, Rat, LD₅₀: 3000 mg/kg

Acute Dermal Toxicity, LD₅₀: No data available.

Acute Inhalation Toxicity, LC₅₀: No data available.

IRRITATION/ CORROSION

Skin: No reaction after contact with intact skin; may cause irritation to abraded skin. Not classified.

Eyes: Rabbit, moderately irritating to the eye but clears within 7 days. Not classified.

Sensitisation (respiratory/contact): Not classified.

Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic effects: Not classified.

Reproductive or developmental effects: Not classified.

Aspiration hazard: Not classified.

Specific target organ toxicity: Not classified.

Section 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

No adverse effects on the environment expected under normal conditions of use.

TOXICITY DATA

Fish, 96hr LC₅₀: 6750 mg/L

Crustacean, (*Daphnia*), 48hr EC₅₀: 2024 mg/L

Algae, 72hr LC₅₀: 3014 mg/L

Persistence and Degradability: In water Sodium Chloride exists as Sodium ions and Chloride ions.

Mobility: Soluble in water.

Bioaccumulation: Not applicable. Sodium and chloride ions play a critical role in many life-sustaining processes.

BOD5 and COD: Not applicable.

Products of Biodegradation: Not applicable.

Toxicity of the Products of Biodegradation: Not applicable.

Sodium chloride occurs in nature as the mineral halite.

DO NOT discharge into sewer or waterways.

Section 13 - DISPOSAL CONSIDERATIONS

Recycle wherever possible.

Consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: Burial in a licensed landfill or incineration in a licensed apparatus (after admixture with suitable combustible material).

Empty contaminated packaging should be taken for local recycling, recovery or waste disposal.

Section 14 - TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG.

Not classified as a Dangerous Good under NZS 5433:2007 Transport of Dangerous Goods on Land.

Section 15 - REGULATORY INFORMATION

REGULATIONS

Non-hazardous.

The product has been reevaluated based on the criteria of GHS 7th edition and classified non-hazardous.

Sodium Chloride (CAS 7647-14-5) is found on the following chemical inventories:

NZIoC, TSCA, AICIS, DSL and ENCS

Section 16 - OTHER INFORMATION

NEW ZEALAND POISON CENTRE 0800 POISON (0800 764 766)

NZ EMERGENCY SERVICES: 111

Interpretation and Abbreviations

ACGIH - American Conference of Governmental Industrial Hygienists.

ACVM - Agricultural Chemicals and Veterinary Medicines.

AICS - Australian Inventory of Chemical Substances.

BOD - Biochemical Oxygen Demand.

China IECSC - Inventory of Existing Chemical Substances Produced or Imported in China.

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COD - Chemical Oxygen Demand.
DSL - Canadian Domestic Substances List.
EINECS - European Inventory of Existing Commercial Chemical Substances.
ENCS - Japanese Existing and New Chemical substances.
GHS - Globally Harmonized System of Classification and Labelling of Chemicals.
IDLH - Immediately Dangerous to Life or Health Concentrations.
IARC - International Agency for Research on Cancer.
Koc - soil organic carbon-water partition coefficient
Kow - octanol/water partition coefficient
LOEL - Lowest Observed Effect Level.
LD_{Lo} - Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a particular animal species).
NOAA - National Oceanic and Atmospheric Administration.
NOEC - No Observed Effect Concentration.
NZ EPA CCID - New Zealand Environmental Protection Authority Chemical Classification and Information Database.
NZIoC - New Zealand Inventory of Chemicals.
OECD HPV - The Organisation for Economic Co-operation and Development High Production Volume Chemicals.
PPE - Personal Protective Equipment.
Prop 65 - California Proposition 65 List of Chemicals.
RTECS - Registry of Toxic Effects of Chemical substances.
SCAPA - Subcommittee on Consequence Assessment and Protective Actions.
STEL - Short term exposure limit.
TOC - Total Organic Carbon.
TSCA - US Toxic Substances Control Act Existing Chemicals.
TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
VOC - Volatile Organic Compounds.

Sources of key data used to compile the datasheet:

Manufacturer's SDS
HSDB Toxnet
NZ EPA CCID
CAMEO Chemicals
NZ Nutrition Foundation
GESTIS Substances Database

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Amendments: 5 yearly review. Reclassified to non-hazardous based on the criteria of GHS.

DISCLAIMER: *The information contained in this safety data sheet was obtained from current and reliable sources. This data is supplied without warranty, expressed or implied, regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.*

End of SDS