

SODIUM CITRATE – SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

PRODUCT IDENTIFIER

Product Name	Sodium Citrate
INCI Name	6132-04-3
CAS Number	Sodium Citrate

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients	Pure Nature
Address	626A Rosebank Road, Avondale 1026	626A Rosebank Road, Avondale 1026
Telephone	+64 9 813 5619	+64 9 813 9412
Website	www.pureingredients.co.nz	www.purenature.co.nz
Email	compliance@pureingredients.co.nz	info@purenature.co.nz

EMERGENCY TELEPHONE NUMBER

Association / Organisation	0800 CHEMCALL / 0800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification	Not classified
Hazard Nature	This product is not classified as hazardous under HSNO and GHS criteria.
Pictogram(s)	Nil
Signal Word	Nil
Hazard Statement(s)	Nil
Prevention Statements(s)	Nil
Response Statement(s)	Nil
Storage Statement(s)	Nil
Disposal Statement(s)	Nil

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

% [volume/weight]	INCI Name	CAS No.
≥ 99.5	Sodium Citrate	6132-04-3

SECTION 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. Call a physician if symptoms occur.
Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.
Skin contact: Wash skin with soap and water. Call a physician if symptoms occur.
Ingestion: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed: No information available.
Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray. Foam. Dry chemical. Carbon dioxide (CO₂).
Unsuitable extinguishing media: High volume water jet.
Specific hazards arising from the chemical: Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon. Dust can form an explosive mixture with air. Avoid generation of dust. Most organic dusts are combustible and according to the circumstances under which the combustion process occurs, such materials may cause fires and/or dust explosions. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire, cool tanks with water spray.
Hazardous combustion products: Oxides of carbon.
Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Evacuate personnel to safe areas. Wash thoroughly after handling. Use personal protective equipment as required.

Other information: Ventilate the area.

For emergency responders: Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection as recommended.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for containment: Stop leak if you can do it without risk. Remove ignition sources. Provide adequate ventilation. Keep out of drains, sewers, ditches and waterways. Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.

Methods for cleaning up: Cover with damp absorbent (inert material, sand or soil). Vacuum or sweep material and place in a disposal container. Use non-sparking tools. Avoid generation of dust. Use personal protective equipment as required. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7 HANDLING AND STORAGE

Advice on safe handling: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Avoid generation of dust. May form flammable dust clouds in air. Take precautionary measures against static discharges. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. Use personal protection equipment. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations: Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.

Storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Protect from sunlight. Store away from sources of heat or ignition. Store away from incompatible materials. Keep container closed when not in use.

Incompatible materials: Acids. Bases. Sodium nitrite. potassium nitrite. and. Strong oxidizing agents.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION
CONTROL PARAMETERS

Exposure limits: No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority.

Workplace Exposure Standard(s): Particulates not otherwise classified: 8hr WES-TWA 10 mg/m³ (inhalable dust) or 3 mg/m³ (respirable dust)

- WES - TWA (Workplace Exposure Standard - Time Weighted Average): the eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.
- These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

PERSONAL PROTECTION

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

- Eye/face protection: Glasses.
- Hand protection: Impervious gloves.
- Skin and body protection: Wear suitable protective clothing. Overalls. Boots.
- Respiratory protection: If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
- Environmental exposure controls: No information available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline solid	Vapour pressure	2.21 x 10 ⁻⁶ Pa (citric acid)
Odour	Odourless	Vapour density	Not applicable
Odour threshold	No information available	Relative density	1.86
pH	7.6 – 9.0	Solubility @20°C	400 – 700 g/L water
Melting/freezing point	No information available	Partition coefficient	-1.6 to -1.8 (citric acid)
Boiling point & range	No information available	Auto-ignition temperature	No information available
Flash point	Not applicable	Decomposition temperature	150°C
Flammability	No information available	Kinematic viscosity	No information available
Upper/lower flammability	No information available	Particle characteristics	No information available

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SECTION 10 STABILITY AND REACTIVITY

Reactivity: No information available.
Stability: Stable under normal conditions.
Sensitivity to mechanical impact: None.
Sensitivity to static discharge: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Possibility of hazardous reactions: None under normal processing.
Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame. Avoid contact with combustible substances. Static discharge (electrostatic discharge). Dust formation. Direct sunlight.
Incompatible materials: Acids. Bases. Sodium nitrite. potassium nitrite. and. Strong oxidizing agents.
Hazardous decomposition products: Oxides of carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Inhalation: May cause irritation.
- Eye contact: May cause irritation. Dust contact with the eyes can lead to mechanical irritation.
- Skin contact: May cause irritation.
- Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium citrate dihydrate	5400 mg/kg (oral, mouse)	> 2000 mg/kg (dermal, rat)	-

Skin corrosion/irritation: No information available.
Serious eye damage/eye irritation: No information available.
Germ cell mutagenicity: No information available.
Carcinogenicity: No information available.
Reproductive toxicity: No information available.
STOT - single exposure: No information available.
STOT - repeated exposure: No information available.
Aspiration hazard: No information available.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways.
Terrestrial ecotoxicity: There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium citrate dihydrate	NOEC, 425 mg/L (algae)	LC50/48h, 440 mg/L (fish)	LC50/24h, 1535 mg/L (Daphnia Magna)

Persistence and degradability: Readily biodegradable.
Bioaccumulation: Material does not bioaccumulate.
Mobility in soil: No information available.
Other adverse effects: No information available.

SECTION 13 DISPOSAL CONSIDERATION

Waste from residues/unused products: Dispose of in accordance with federal, state and local regulations.
Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14 TRANSPORT INFORMATION

Transport	ADR/RID	IMDG	IATA/ ICAO
UN number	Not dangerous goods	Not dangerous goods	Not dangerous goods
UN proper shipping name	Nil	Nil	Nil
Transport hazard class(es)	Nil	Nil	Nil
Packing group	Nil	Nil	Nil

SECTION 15 REGULATORY INFORMATION

HSNO approval number | N/A

NZIoC: This material is listed on the New Zealand Inventory of Chemicals.

AiIC: This material is listed on the Australian Inventory of Industrial Chemicals.

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Reference: supplier's SDS.

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Pure Ingredients