1. IDENTIFICATION

Product Name: Sodium Propionate

Other Names: No Data Available

Uses: Food & Feed additive; Preservative. Reserved for industrial and professional use.

Chemical Family: No Data Available

Chemical Formula: C₃H₅NaO₂

Chemical Name: Propanoic acid, sodium salt

Product Description: Mono-constituent substance (organic).

Contact Details of the Supplier of this Safety Data Sheet

Organisation | Location | Telephone
--- | --- | ---
Redox Ltd | 2 Swettenham Road, Minto NSW 2566 Australia | +61-2-97333000
Redox Ltd | 11 Mayo Road, Wiri Auckland 2104, New Zealand | +64-9-2506222
Redox Inc. | 3960 Paramount Boulevard, Suite 107, Lakewood CA 90712 USA | +1-424-675-3200
Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7, Seksyen 33, Shah Alam Premier Industrial Park, 40400 Shah Alam, Selangor, Malaysia | +60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation | Location | Telephone
--- | --- | ---
Poisons Information Centre | Westmead NSW | 1800-251525
Chemcall | Australia | 1800-127406
Chemcall | Malaysia | +64-4-9179888
Chemcall | New Zealand | 0800-243622
National Poisons Centre | New Zealand | 0800-764766
CHEMTREC | USA & Canada | 1-800-424-9300 CN723420

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust): Not Scheduled
Globally Harmonised System

Hazard Classification
Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories
Serious Eye Damage/Irritation - Category 2A

Pictograms

Signal Word
Warning

Hazard Statements
H319 Causes serious eye irritation.

Precautionary Statements
Prevention
P264 Wash hands thoroughly after handling.
P280 Wear eye protection/face protection.

Response
P305 + P351 + P338 If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice.

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification
NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications
Health Hazards 6.4A Substances that are irritating to the eye

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Entity</th>
<th>Formula</th>
<th>CAS Number</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium propionate</td>
<td>C3H5NaO2</td>
<td>137-40-6</td>
<td>&lt;=100 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed
IF SWALLOWED: Rinse mouth with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

Eye
IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Advice to Doctor
Treat symptomatically.

Medical Conditions Aggravated by Exposure
No information available.

5. FIRE FIGHTING MEASURES

General Measures
If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions
Combustible solid; May burn but does not ignite readily.

Extinguishing Media
Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Do not scatter spilled material with high-pressure water streams.

Fire and Explosion Hazard
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Products of Combustion
Fire may produce irritating and/or toxic gases, including Carbon oxides, Sodium oxides.

Special Fire Fighting Instructions
Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment
Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters’ protective clothing will only provide limited protection.

Flash Point
No Data Available

Lower Explosion Limit
No Data Available

Upper Explosion Limit
No Data Available

Auto Ignition Temperature
No Data Available

Hazchem Code
No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure
Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures
Pick up and transfer to properly labelled containers for disposal (see SECTION 13).

Containment
Stop leak if you can do it without risk. Prevent dust cloud.

Decontamination
No information available.

Environmental Precautionary Measures
Prevent entry into drains and waterways.

Evacuation Criteria
Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures
Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling
Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment (see SECTION 8). WARNING: May form combustible dust concentrations in air! Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharges.

Storage
Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use. Keep away from heat and sources of ignition - No smoking. Protect from moisture (hygroscopic). Keep away from incompatible
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General**
No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:
- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).
- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m³; TWA = 3 mg/m³ (respirable dust).

**Exposure Limits**
No Data Available

**Biological Limits**
No information available.

**Engineering Measures**
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.

**Personal Protection Equipment**
- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if exposed to dust. Recommended: In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety goggles.
- Hand protection: Handle with gloves. Recommended: Protective gloves, e.g. Nitrile rubber (NBR).
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Protective work clothing, e.g. Overalls, safety shoes/boots.

**Special Hazards Precautions**
No information available.

**Work Hygienic Practices**
Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**
Solid

**Appearance**
Powder or granules

**Odour**
Odourless

**Colour**
White

**pH**
No Data Available

**Vapour Pressure**
1.32E-12 hPa (@ 20 °C)

**Relative Vapour Density**
No Data Available

**Boiling Point**
No Data Available

**Melting Point**
289.3 °C

**Freezing Point**
No Data Available

**Solubility**
Soluble in water (>500 g/l) 20°C

**Specific Gravity**
1.51

**Flash Point**
No Data Available

**Auto Ignition Temp**
No Data Available

**Evaporation Rate**
No Data Available

**Bulk Density**
No Data Available

**Corrosion Rate**
No Data Available

**Decomposition Temperature**
No Data Available

**Density**
No Data Available
10. STABILITY AND REACTIVITY

General Information
No dangerous reaction known under conditions of normal use.

Chemical Stability
Stable under normal conditions of use, storage and transport.

Conditions to Avoid
Avoid generating dust. Keep away from heat and sources of ignition. Avoid exposure to moist air or water.

Materials to Avoid
Incompatible/reactive with oxidising agents, strong acids.

Hazardous Decomposition
Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, Sodium oxides.

*No decomposition if used and stored according to specifications.

Hazardous Polymerisation
Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information
- Acute toxicity: Based on available data, the classification criteria are not met. Ingestion of large amounts may cause nausea and vomiting.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met. Contact with skin may cause irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Negative [OECD 471].
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
Acute Ingestion  
- Acute toxicity (Oral): LD₅₀, Rat: >6,500 mg/kg [Supplier’s SDS].

Other Acute toxicity (Dermal): 
- LD₅₀, Rat: >2,000 mg/kg [Supplier’s SDS].

Carcinogen Category  
None

12. ECOLOGICAL INFORMATION

Ecotoxicity  
- Aquatic toxicity: EC₅₀, Crustacea (Daphnia magna): >100 mg/L (48 h) [Supplier’s SDS].
- NOEC Algae (Pseudokirchneriella subcapitata): >80.6 mg/L [Supplier’s SDS].

Persistence/Degradability  
Readily biodegradable.

Mobility  
No information available.

Environmental Fate  
Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Bioaccumulation Potential  
Bioaccumulation is not expected.

Environmental Impact  
No Data Available

13. DISPOSAL CONSIDERATIONS

General Information  
Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill  
Packaging that may not be cleansed must be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name  
Sodium Propionate

Class  
No Data Available

Subsidiary Risk(s)  
No Data Available

UN Number  
No Data Available

Hazchem  
No Data Available

Pack Group  
No Data Available

Special Provision  
No Data Available

Comments  
NON-DANGEROUS GOODS: Not regulated for LAND transport.
Land Transport (Malaysia)
ADR Code
Proper Shipping Name: Sodium Propionate
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
Comments: NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)
NZS5433
Proper Shipping Name: Sodium Propionate
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
Comments: NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)
US DOT
Proper Shipping Name: Sodium Propionate
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
Comments: NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport
IMDG Code
Proper Shipping Name: Sodium Propionate
Class: No Data Available
Subsidiary Risk(s): No Data Available
UN Number: No Data Available
Hazchem: No Data Available
Pack Group: No Data Available
Special Provision: No Data Available
EMS: No Data Available
Marine Pollutant: No
NON-DANGEROUS GOODS: Not regulated for SEA transport.

**Air Transport**

**IATA DGR**

- **Proper Shipping Name**: Sodium Propionate
- **Class**: No Data Available
- **Subsidiary Risk(s)**: No Data Available
- **UN Number**: No Data Available
- **Hazchem**: No Data Available
- **Pack Group**: No Data Available
- **Special Provision**: No Data Available
- **Comments**: NON-DANGEROUS GOODS: Not regulated for AIR transport.

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

- **Dangerous Goods Classification**: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**15. REGULATORY INFORMATION**

- **General Information**: No Data Available
- **Poisons Schedule (Aust)**: Not Scheduled

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

- **Approval Code**: HSR002503
  - HSR003724 (Revoked)

**National/Regional Inventories**

- **Australia (AIIC)**: Listed
- **Canada (DSL)**: Not Determined
- **Canada (NDSL)**: Not Determined
- **China (IECSC)**: Not Determined
- **Europe (EINECS)**: 205-290-4
- **Europe (REACH)**: Not Determined
- **Japan (ENCS/METI)**: Not Determined
- **Korea (KECI)**: Not Determined
- **Malaysia (EHS Register)**: Not Determined
- **New Zealand (NZIoC)**: Listed
16. OTHER INFORMATION

**Related Product Codes**
SOPROP1000, SOPROP2000, SOPROP2500, SOPROP2700, SOPROP2701, SOPROP2702, SOPROP2703, SOPROP2704, SOPROP2705, SOPROP2706, SOPROP2707, SOPROP2708, SOPROP3000, SOPROP3001, SOPROP3100, SOPROP3101, SOPROP4000, SOPROP4001, SOPROP4100, SOPROP4106, SOPROP5000, SOPROP5100, SOPROP5500, SOPROP5600, SOPROP5700, SOPROP9000, SOPROP9100

**Revision**
6

**Revision Date**
18 Apr 2023

**Key/Legend**
- < Less Than
- > Greater Than
- AICS Australian Inventory of Chemical Substances
- atm Atmosphere
- CAS Chemical Abstracts Service (Registry Number)
- cm² Square Centimetres
- CO2 Carbon Dioxide
- COD Chemical Oxygen Demand
- deg C (°C) Degrees Celsius
- EPA (New Zealand) Environmental Protection Authority of New Zealand
- deg F (°F) Degrees Fahrenheit
- g Grams
- g/cm³ Grams per Cubic Centimetre
- g/l Grams per Litre
- HSNO Hazardous Substance and New Organism
- IDLH Immediately Dangerous to Life and Health
- immiscible Liquids are insoluble in each other.
- inHg Inch of Mercury
- inH2O Inch of Water
- K Kelvin
- kg Kilogram
- kg/m³ Kilograms per Cubic Metre
- lb Pound
- LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
- LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
- ltr or L Litre
- m³ Cubic Metre
- mbar Millibar
- mg Milligram
- mg/24H Milligrams per 24 Hours
- mg/kg Milligrams per Kilogram
- mg/m³ Milligrams per Cubic Metre
- Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
- mm Millimetre
- mmH2O Millimetres of Water
- mPa.s Millipascals per Second
- N/A Not Applicable
- NIOSH National Institute for Occupational Safety and Health