



# SAFETY DATA SHEET SODIUM SACCHARIN REVISION 3, DATE 15 FEB 19

## 1. IDENTIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | <b>Sodium Saccharin</b>   |
| <b>Other Names</b>         | 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, sodium salt, dihydrate; Saccharin Sodium; Sodium benzosulphimide |
| <b>Uses</b>                | Non-caloric sweetener.  |
| <b>Chemical Family</b>     | No Data Available   |
| <b>Chemical Formula</b>    | C <sub>7</sub> H <sub>4</sub> NNaO <sub>3</sub> S.2H <sub>2</sub> O   |
| <b>Chemical Name</b>       | Sodium saccharin, dihydrate   |
| <b>Product Description</b> | No Data Available   |

### Contact Details of the Supplier of this Safety Data Sheet

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

### Emergency Contact Details

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

| <b>Organisation</b>        | <b>Location</b> | <b>Telephone</b>                           |
|----------------------------|-----------------|--|
| Poisons Information Centre | Westmead NSW    | 1800-251525<br>131126                      |
| Chemcall                   | Australia       | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia        | +64-4-9179888                              |
| Chemcall                   | New Zealand     | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand     | 0800-764766                                |
| CHEMTREC                   | USA & Canada    | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

## 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)**

Not Scheduled



## Globally Harmonised System

|                       |  |
|-----------------------|--|
| Hazard Classification | NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) |
| Signal Word           | None   |

## National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road &amp; 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) |
|--------------------------------|---|

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

| Chemical Entity             | Formula         | CAS Number | Proportion |
|-----------------------------|-----------------|------------|------------|
| Sodium saccharin, dihydrate | C7H4NNaO3S.2H2O | 6155-57-3  | <=100 %    |

## 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

|   |   |
|---|---|
| Swallowed                                 | IF SWALLOWED: Rinse mouth with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.   |
| 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 before reuse. If skin irritation occurs, get medical advice/attention.  |
| Inhaled                                   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing; Administer oxygen if breathing is difficult.  |
| Advice to Doctor                          | Treat symptomatically. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.   |
| 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   | May be combustible at high temperatures.   |
| Extinguishing Media       | Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.  |
| Fire and Explosion Hazard | Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.<br>Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium |

|   |  |
|---|--|
| <b>Hazardous Products of Combustion</b>   | oxides, Hydrogen sulfide.  |
| <b>Special Fire Fighting Instructions</b> | Contain runoff from fire control or dilution water - Runoff may pollute waterways.   |
| <b>Personal Protective Equipment</b>      | Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection. |
| <b>Flash Point</b>                        | No Data Available  |
| <b>Lower Explosion Limit</b>              | No Data Available  |
| <b>Upper Explosion Limit</b>              | No Data Available  |
| <b>Auto Ignition Temperature</b>          | No Data Available  |
| <b>Hazchem Code</b>                       | No Data Available  |

## 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| <b>General Response Procedure</b>           | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.  |
| <b>Clean Up Procedures</b>                  | Collect material (sweep up and shovel) and place into a suitable, closed container for recovery or disposal (see SECTION 13). Avoid clearing dust surfaces with compressed air. Non-sparking tools should be used. If appropriate, moisten first to reduce airborne dust and prevent scattering. |
| <b>Containment</b>                          | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.   |
| <b>Decontamination</b>                      | Small amounts of residue may be flushed to sewer with plenty of water.   |
| <b>Environmental Precautionary Measures</b> | Prevent entry into drains and waterways.   |
| <b>Evacuation Criteria</b>                  | Spill or leak area should be isolated immediately. Keep unauthorised personnel away.   |
| <b>Personal Precautionary Measures</b>      | Use personal protective equipment as required (see SECTION 8).   |

## 7. HANDLING AND STORAGE

|                  |   |
|------------------|---|
| <b>Handling</b>  | 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 as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| <b>Storage</b>   | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Protect against physical damage. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).   |
| <b>Container</b> | Keep in the original container. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                          |   |
|--------------------------|---|
| <b>General</b>           | No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:<br>- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m <sup>3</sup> (measured as inhalable dust).<br>- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m <sup>3</sup> ; TWA = 3 mg/m <sup>3</sup> (respirable dust). |
| <b>Exposure Limits</b>   | No Data Available   |
| <b>Biological Limits</b> | No information available.   |

|                                      |  |
|--------------------------------------|--|
| <b>Engineering Measures</b>          | 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.   |
| <b>Personal Protection Equipment</b> | <ul style="list-style-type: none"> <li>- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or where exposure to the substance is apparent (e.g. generation of high concentrations of dust, development of respiratory tract irritation). Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 &amp; 1716).</li> <li>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side shields or goggles.</li> <li>- Hand protection: Handle with gloves. Recommended: Protective gloves.</li> <li>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Clean, body covering clothing; Chemical-resistant apron; Protective boots, if the situation requires.</li> </ul> |
| <b>Special Hazards Precautions</b>   | No information available.  |
| <b>Work Hygienic Practices</b>       | Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |  |
|---------------------------------------|--|
| <b>Physical State</b>                 | Solid  |
| <b>Appearance</b>                     | Crystalline powder                               |
| <b>Odour</b>                          | Odourless  |
| <b>Colour</b>                         | White  |
| <b>pH</b>                             | Aqueous solution is neutral to slightly alkaline |
| <b>Vapour Pressure</b>                | No Data Available                                |
| <b>Relative Vapour Density</b>        | No Data Available                                |
| <b>Boiling Point</b>                  | No Data Available                                |
| <b>Melting Point</b>                  | 226 - 230 °C                                     |
| <b>Freezing Point</b>                 | No Data Available                                |
| <b>Solubility</b>                     | Soluble in water                                 |
| <b>Specific Gravity</b>               | No Data Available                                |
| <b>Flash Point</b>                    | No Data Available                                |
| <b>Auto Ignition Temp</b>             | No Data Available                                |
| <b>Evaporation Rate</b>               | No Data Available                                |
| <b>Bulk Density</b>                   | No Data Available                                |
| <b>Corrosion Rate</b>                 | No Data Available                                |
| <b>Decomposition Temperature</b>      | No Data Available                                |
| <b>Density</b>                        | No Data Available                                |
| <b>Specific Heat</b>                  | No Data Available                                |
| <b>Molecular Weight</b>               | No Data Available                                |
| <b>Net Propellant Weight</b>          | No Data Available                                |
| <b>Octanol Water Coefficient</b>      | No Data Available                                |
| <b>Particle Size</b>                  | No Data Available                                |
| <b>Partition Coefficient</b>          | No Data Available                                |
| <b>Saturated Vapour Concentration</b> | No Data Available                                |
| <b>Vapour Temperature</b>             | No Data Available                                |
| <b>Viscosity</b>                      | No Data Available                                |
| <b>Volatile Percent</b>               | No Data Available                                |
| <b>VOC Volume</b>                     | No Data Available                                |
| <b>Additional Characteristics</b>     | No information available.                        |

|   |  |
|---|--|
| <b>Potential for Dust Explosion</b>                                   | Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.                           |
| <b>Fast or Intensely Burning Characteristics</b>                      | No information available.  |
| <b>Flame Propagation or Burning Rate of Solid Materials</b>           | No information available.  |
| <b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b> | No information available.  |
| <b>Properties That May Initiate or Contribute to Fire Intensity</b>   | May be combustible at high temperatures.   |
| <b>Reactions That Release Gases or Vapours</b>                        | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides, Hydrogen sulfide. |
| <b>Release of Invisible Flammable Vapours and Gases</b>               | No information available.  |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>General Information</b>              | No information available.  |
| <b>Chemical Stability</b>               | Stable under ordinary conditions of use and storage.   |
| <b>Conditions to Avoid</b>              | Avoid generating dust. Keep away from heat and sources of ignition. Take precautionary measures against static discharge.  |
| <b>Materials to Avoid</b>               | Incompatible/reactive with strong oxidizing agents.  |
| <b>Hazardous Decomposition Products</b> | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides, Hydrogen sulfide. |
| <b>Hazardous Polymerisation</b>         | Will not occur.  |

## 11. TOXICOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>General Information</b> | <p>Information on possible routes of exposure:</p> <ul style="list-style-type: none"><li>- Ingestion: Health injuries are not known or expected under normal use. May cause nausea, vomiting, diarrhoea. The toxicological properties of this substance have not been fully investigated.</li><li>- Eye contact: May cause eye irritation.</li><li>- Skin contact: No adverse effects expected. May cause skin irritation with prolonged or repeated contact. No sensitizing effects known.</li><li>- Inhalation: Nuisance dust, causing coughing and sneezing. Spray mist may irritate the respiratory system.</li></ul> <p>Chronic effects: Saccharin and its salts are classified in Group 3 of the IARC Monographs: Not classifiable as to its carcinogenicity to humans.</p> |
| <b>Carcinogen Category</b> | None  |

## 12. ECOLOGICAL INFORMATION

|                                  |  |
|----------------------------------|--|
| <b>Ecotoxicity</b>               | No information available.                |
| <b>Persistence/Degradability</b> | No information available.                |
| <b>Mobility</b>                  | No information available.                |
| <b>Environmental Fate</b>        | Prevent entry into drains and waterways. |
| <b>Bioaccumulation Potential</b> | No information available.                |

## Environmental Impact

No Data Available

## 13. DISPOSAL CONSIDERATIONS

## General Information

Waste from residues/unused product: Recycle to process, if possible; or dispose of in accordance with local/regional/national regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

## Special Precautions for Land Fill

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal. Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

## Land Transport (Australia)

ADG Code

|                      |  |
|----------------------|--|
| Proper Shipping Name | Sodium Saccharin                                       |
| Class                | No Data Available                                      |
| Subsidiary Risk(s)   | No Data Available                                      |
|                      | 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 Saccharin                                       |
| Class                | No Data Available                                      |
| Subsidiary Risk(s)   | No Data Available                                      |
|                      | 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 Saccharin  |
| Class                | No Data Available |
| Subsidiary Risk(s)   | No Data Available |
|                      | No Data Available |
| UN Number            | No Data Available |

|                          |  |
|--------------------------|--|
| <b>Hazchem</b>           | No Data Available                                      |
| <b>Pack Group</b>        | No Data Available                                      |
| <b>Special Provision</b> | No Data Available                                      |
| <b>Comments</b>          | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Land Transport (United States of America)**

US DOT

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | Sodium Saccharin                                       |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Sea Transport**

IMDG Code

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | Sodium Saccharin                                      |
| <b>Class</b>                | No Data Available                                     |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                     |
| <b>UN Number</b>            | No Data Available                                     |
| <b>Hazchem</b>              | No Data Available                                     |
| <b>Pack Group</b>           | No Data Available                                     |
| <b>Special Provision</b>    | No Data Available                                     |
| <b>EMS</b>                  | No Data Available                                     |
| <b>Marine Pollutant</b>     | No  |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

**Air Transport**

IATA DGR

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

**National Transport Commission (Australia)**

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

|                                       |   |
|---------------------------------------|---|
| <b>Dangerous Goods Classification</b> | 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 Not Hazardous

**National/Regional Inventories**

Australia (AIIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Listed

Europe (REACH) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified Substances) Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

**16. OTHER INFORMATION**

**Related Product Codes** SACCHA1000, SACCHA1001, SACCHA1002, SACCHA1003, SACCHA1004, SACCHA1005, SACCHA1006, SACCHA1007, SACCHA1008, SACCHA1009, SACCHA1010, SACCHA1011, SACCHA1012, SACCHA1500, SACCHA1501, SACCHA1502, SACCHA1700, SACCHA1701, SACCHA1702, SACCHA1703, SACCHA1704, SACCHA1705, SACCHA1706, SACCHA1707, SACCHA1900, SACCHA2000, SACCHA2001, SACCHA2002, SACCHA2003, SACCHA2004, SACCHA2100, SACCHA2200, SACCHA2300, SACCHA2400, SACCHA2500, SACCHA2600, SACCHA2700, SACCHA3000, SACCHA3500, SACCHA4000, SACCHA4100, SACCHA4200, SACCHA4300, SACCHA4400, SACCHA4500, SACCHA4600, SACCHA4500, SACCHA4501, SACCHA5502, SACCHA6000, SACCHA6500, SACCHA6540, SACCHA6600, SACCHA6700, SACCHA7000, SACCHA7500, SACCHA8000, SACCHA8001

**Revision** 3  
15 Feb 2019



## Revision Date

## Key/Legend

< Less Than  
 > Greater Than  
**AICS** Australian Inventory of Chemical Substances  
**atm** Atmosphere  
**CAS** Chemical Abstracts Service (Registry Number)  
**cm<sup>2</sup>** Square Centimetres  
**CO<sub>2</sub>** Carbon Dioxide  
**COD** Chemical Oxygen Demand  
**deg C (°C)** Degrees Celcius  
**EPA (New Zealand)** Environmental Protection Authority of New Zealand  
**deg F (°F)** Degrees Farenheit  
**g** Grams  
**g/cm<sup>3</sup>** 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 insoluable in each other.  
**inHg** Inch of Mercury  
**inH<sub>2</sub>O** Inch of Water  
**K** Kelvin  
**kg** Kilogram  
**kg/m<sup>3</sup>** Kilograms per Cubic Metre  
**lb** Pound  
**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> 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.  
**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> 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  
**m<sup>3</sup>** Cubic Metre  
**mbar** Millibar  
**mg** Milligram  
**mg/24H** Milligrams per 24 Hours  
**mg/kg** Milligrams per Kilogram  
**mg/m<sup>3</sup>** Milligrams per Cubic Metre  
**Misc or Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.  
**mm** Millimetre  
**mmH<sub>2</sub>O** Millimetres of Water  
**mPa.s** Millipascals per Second  
**N/A** Not Applicable  
**NIOSH** National Institute for Occupational Safety and Health  
**NOHSC** National Occupational Heath and Safety Commission  
**OECD** Organisation for Economic Co-operation and Development  
**Oz** Ounce  
**PEL** Permissible Exposure Limit  
**Pa** Pascal  
**ppb** Parts per Billion  
**ppm** Parts per Million  
**ppm/2h** Parts per Million per 2 Hours  
**ppm/6h** Parts per Million per 6 Hours  
**psi** Pounds per Square Inch  
**R** Rankine  
**RCP** Reciprocal Calculation Procedure  
**STEL** Short Term Exposure Limit  
**TLV** Threshold Limit Value  
**tne** Tonne  
**TWA** Time Weighted Average  
**ug/24H** Micrograms per 24 Hours  
**UN** United Nations  
**wt** Weight