

### 1. IDENTIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | <b>Mineral Blend</b>  |
| <b>Other Names</b>         | Mineral Blend A; Mineral Blend B - Contains Anti-Caking Agent; Mineral Blend C - Contains Anti-Caking Agent |
| <b>Uses</b>                | No Data Available   |
| <b>Chemical Family</b>     | No Data Available   |
| <b>Chemical Formula</b>    | No Data Available   |
| <b>Chemical Name</b>       | Mineral Blend   |
| <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 Pty Ltd           | 2 Swettenham Road<br>Minto NSW 2566<br>Australia   | +61-2-97333000   |
| Redox Pty 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 & 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 **6.1E** Substances that are acutely toxic –May be harmful, Aspiration hazard  
**6.4A** Substances that are irritating to the eye

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

| Chemical Entity  | Formula           | CAS Number  | Proportion  |
|--|-------------------|-------------|-------------|
| Sodium Chloride  | No Data Available | 7647-14-5   | 88.0 %      |
| Magnesium Chloride Hexahydrate   | No Data Available | 7791-18-6   | 9.24 %      |
| Potassium Chloride   | No Data Available | 7447-40-7   | 1.0 - 2.0 % |
| This product may or may not contain Silicon Dioxide as anti-caking agent (Synthetic Precipitated Silica) | No Data Available | 112926-00-8 | 0.75 %      |

## 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

**Swallowed** Rinse mouth with water. Give water to drink provided person is conscious. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. In serious cases, obtain medical attention.

**Eye** Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

**Skin** Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

**Inhaled** Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if effects persist.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of patient.

**Medical Conditions Aggravated by Exposure** May aggravate pre-existing dry skin conditions such as dermatitis.

## 5. FIRE FIGHTING MEASURES

**General Measures** Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

**Flammability Conditions** Non-combustible solid.

|   |  |
|---|--|
| <b>Extinguishing Media</b>                | In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.  |
| <b>Hazardous Products of Combustion</b>   | Salt emits toxic fumes of chlorine and sodium oxide when heated to decomposition and at very high temperature. May evolve chlorine gas when in contact with strong acids.                        |
| <b>Special Fire Fighting Instructions</b> | Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.  |
| <b>Personal Protective Equipment</b>      | Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). |
| <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>           | Eliminate all sources of ignition. Increase ventilation. Avoid generating dust.  |
| <b>Clean Up Procedures</b>                  | Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly. |
| <b>Containment</b>                          | Stop leak if safe to do so.  |
| <b>Decontamination</b>                      | After clean up, flush area to dissolve remaining material in excess water, sufficient to meet water quality standards.   |
| <b>Environmental Precautionary Measures</b> | Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.          |
| <b>Evacuation Criteria</b>                  | Evacuate all unnecessary personnel. Isolate the danger area.   |
| <b>Personal Precautionary Measures</b>      | Personnel involved in the clean up should wear full protective clothing as listed in section 8.  |

## 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling</b>  | Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. The main ingredient in this mineral blend is salt. Salt is non-flammable but static electricity can be generated by pneumatic conveying. For this reason, pipes should be bonded and earthed especially in areas where a spark could prove hazardous. This product should be covered during transport to prevent loss or damage by dust, rain, wind or other physical means. |
| <b>Storage</b>   | Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight to prevent deterioration of packing material. Store in dry atmosphere. Product is slightly hygroscopic. Keep away from concentrated solids as it absorbs moisture if relative humidity is above 75%. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.  |
| <b>Container</b> | Store in original packaging as approved by manufacturer.<br>Suitable: Plastic bottles or drums, multi-ply woven plastic, other plastic, or multi-wall paper bag with sealed plastic liner.   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                |  |
|----------------|--|
| <b>General</b> | No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m <sup>3</sup> (for inspirable dust) and 3mg/m <sup>3</sup> (for respirable dust).<br>NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.<br>These 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 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.

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Limits</b>               | No Data Available   |
| <b>Biological Limits</b>             | No information available on biological limit values for this product.   |
| <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. Structural integrity of various metals used in equipment and structures should be regularly checked as salt (main ingredient) accelerates corrosion of most common metals (especially in damp conditions). Iron, steel, zinc and aluminium are particularly susceptible, while brass, bronze and stainless steel are fairly resistant. |
| <b>Personal Protection Equipment</b> | RESPIRATOR: Wear a P2 particulate respirator when handling this product (AS1715/1716).<br>EYES: Safety glasses with side shields (AS1336/1337).<br>HANDS: Wear protective gloves (AS2161).<br>CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).   |
| <b>Work Hygienic Practices</b>       | No Data Available   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| <b>Physical State</b>                 | Solid                               |
| <b>Appearance</b>                     | Crystals, Powder, Lumps (Rocks)     |
| <b>Odour</b>                          | No Data Available                   |
| <b>Colour</b>                         | Translucent to Opaque White OR Pink |
| <b>pH</b>                             | No Data Available                   |
| <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>                  | No Data Available                   |
| <b>Freezing Point</b>                 | No Data Available                   |
| <b>Solubility</b>                     | No Data Available                   |
| <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 Data Available                   |
| <b>Potential for Dust Explosion</b>   | No Data Available                   |

|   |                   |
|---|-------------------|
| <b>Fast or Intensely Burning Characteristics</b>                      | No Data Available |
| <b>Flame Propagation or Burning Rate of Solid Materials</b>           | No Data Available |
| <b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b> | No Data Available |
| <b>Properties That May Initiate or Contribute to Fire Intensity</b>   | No Data Available |
| <b>Reactions That Release Gases or Vapours</b>                        | No Data Available |
| <b>Release of Invisible Flammable Vapours and Gases</b>               | No Data Available |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Chemical Stability</b>               | Product is stable under normal conditions of use, storage and temperature. Slightly Hygroscopic.  |
| <b>Conditions to Avoid</b>              | Avoid excessive heat, direct sunlight, generating dust, moisture, static discharges and high temperatures.  |
| <b>Materials to Avoid</b>               | Incompatible with oxidising materials, strong acids, bromine trifluoride, and lithium.  |
| <b>Hazardous Decomposition Products</b> | Salt emits toxic fumes of chlorine and sodium oxide when heated to decomposition and at very high temperature. May evolve chlorine gas when in contact with strong acids. |
| <b>Hazardous Polymerisation</b>         | Hazardous Polymerisation has not been reported.   |

## 11. TOXICOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>General Information</b> | For Sodium Chloride (Salt):<br>Oral LD50 Rat: 3,000mg/Kg<br>Oral TDLo Human: 12,357mg/Kg<br>Oral LD50 Mouse: 4,000mg/Kg<br>Oral LDLo Rabbit: 8,000mg/Kg<br>Skin Rabbit 500mg/24hr: Mild<br>Eye Rabbit 100mg/24hr: Severe        |
| <b>Ingestion</b>           | Ingestion may cause vomiting, diarrhea, anorexia, thirst, fever and convulsion after excessive ingestion. Dehydration may occur in most internal organs, central nervous system may be affected resulting in confusion or coma. |
| <b>EyeIrritant</b>         | Causes eye irritation, redness and some pain. Dust exposure may cause physical irritation to the eyes because of the particulate nature of the product.   |
| <b>SkinIrritant</b>        | Abrasive irritant to some sensitive persons or when applied to open cuts and abrasions. Intensive exposure may result in dermatitis. May aggravate pre-existing dry skin conditions such as dermatitis.                         |
| <b>Inhalation</b>          | Abrasive irritant to mucous membranes. May give salty taste or cause irritation to the nose and throat. Symptoms may include coughing and sore, dry throat.   |
| <b>Carcinogen Category</b> | No Data Available   |

## 12. ECOLOGICAL INFORMATION

|                                  |   |
|----------------------------------|---|
| <b>Ecotoxicity</b>               | No ecological information available for this product.                   |
| <b>Persistence/Degradability</b> | No information available on persistence/degradability for this product. |
| <b>Mobility</b>                  | No information available on mobility for this product.                  |
| <b>Environmental Fate</b>        | Do NOT let product reach waterways, drains and sewers.                  |
| <b>Bioaccumulation Potential</b> | No information available on bioaccumulation for this product.           |
| <b>Environmental Impact</b>      | No Data Available   |

## 13. DISPOSAL CONSIDERATIONS

|  |   |
|--|---|
| <b>General Information</b>               | Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. |
| <b>Special Precautions for Land Fill</b> | Contact a specialist disposal company or the local waste regulator for advice.  |

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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 |

### Land Transport (Malaysia)

ADR

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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 |

### Land Transport (New Zealand)

NZS5433

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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 |

### Land Transport (United States of America)

US DOT

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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 |

#### Sea Transport

IMDG Code

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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                |

#### Air Transport

IATA DGR

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | MINERAL BLEND     |
| <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 |

#### National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & 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

|                                |                   |
|--------------------------------|-------------------|
| <b>General Information</b>     | No Data Available |
| <b>Poisons Schedule (Aust)</b> | Not scheduled     |

#### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

|                      |           |
|----------------------|-----------|
| <b>Approval Code</b> | HSR002722 |
|----------------------|-----------|

#### National/Regional Inventories

|                         |        |
|-------------------------|--------|
| <b>Australia (AICS)</b> | Listed |
|-------------------------|--------|

|   |                |
|---|----------------|
| <b>Canada (DSL)</b>                                   | Not Determined |
| <b>Canada (NDSL)</b>                                  | Not Determined |
| <b>China (IECSC)</b>                                  | Not Determined |
| <b>Europe (EINECS)</b>                                | Not Determined |
| <b>Europe (REACH)</b>                                 | Not Determined |
| <b>Japan (ENCS/METI)</b>                              | Not Determined |
| <b>Korea (KECI)</b>                                   | Not Determined |
| <b>Malaysia (EHS Register)</b>                        | Not Determined |
| <b>New Zealand (NZIoC)</b>                            | Not Determined |
| <b>Philippines (PICCS)</b>                            | Not Determined |
| <b>Switzerland (Giftliste 1)</b>                      | Not Determined |
| <b>Switzerland (Inventory of Notified Substances)</b> | Not Determined |
| <b>Taiwan (NCSR)</b>                                  | Not Determined |
| <b>USA (TSCA)</b>                                     | Not Determined |

## 16. OTHER INFORMATION

|                              |  |
|------------------------------|--|
| <b>Related Product Codes</b> | MIBLEN1000, MIBLEN1001, MIBLEN1500, MIBLEN2000, MIBLEN2001, MIBLEN2002   |
| <b>Revision</b>              | 3  |
| <b>Revision Date</b>         | 27 Nov 2014  |
| <b>Key/Legend</b>            | <p>&lt; Less Than<br/>&gt; Greater Than<br/> <b>AICS</b> Australian Inventory of Chemical Substances<br/> <b>atm</b> Atmosphere<br/> <b>CAS</b> Chemical Abstracts Service (Registry Number)<br/> <b>cm<sup>2</sup></b> Square Centimetres<br/> <b>CO<sub>2</sub></b> Carbon Dioxide<br/> <b>COD</b> Chemical Oxygen Demand<br/> <b>deg C (°C)</b> Degrees Celcius<br/> <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand<br/> <b>deg F (°F)</b> Degrees Farenheit<br/> <b>g</b> Grams<br/> <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre<br/> <b>g/l</b> Grams per Litre<br/> <b>HSNO</b> Hazardous Substance and New Organism<br/> <b>IDLH</b> Immediately Dangerous to Life and Health<br/> <b>immiscible</b> Liquids are insoluable in each other.<br/> <b>inHg</b> Inch of Mercury<br/> <b>inH<sub>2</sub>O</b> Inch of Water<br/> <b>K</b> Kelvin<br/> <b>kg</b> Kilogram<br/> <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre<br/> <b>lb</b> Pound<br/> <b>LC<sub>50</sub></b> 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.<br/> <b>LD<sub>50</sub></b> 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.<br/> <b>ltr</b> or <b>L</b> Litre<br/> <b>m<sup>3</sup></b> Cubic Metre<br/> <b>mbar</b> Millibar<br/> <b>mg</b> Milligram</p> |



**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 Health 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