1. IDENTIFICATION

**Product Name**
Soy Wax - Nature Wax

**Other Names**
Nature Wax C-1; Nature Wax C-3

**Uses**
Substitute for paraffin in wax applications

**Chemical Family**
No Data Available

**Chemical Formula**
Unspecified

**Chemical Name**
Soy Wax - Nature Wax

**Product Description**
No Data Available

**Contact Information**

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Location</th>
<th>Telephone</th>
<th>Ask For</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redox Pty Ltd</td>
<td>2 Swettenham Road Minto NSW 2566 Australia</td>
<td>+61-2-97333000</td>
<td>SDS Officer</td>
</tr>
<tr>
<td>Redox Pty Ltd</td>
<td>11 Mayo Road Wiri Auckland 2104 New Zealand</td>
<td>+64-9-2506222</td>
<td></td>
</tr>
<tr>
<td>Redox Inc.</td>
<td>2132A E. Dominguez Street Carson CA 90810 USA</td>
<td>+1-424-675-3200</td>
<td></td>
</tr>
<tr>
<td>Redox Chemicals Sdn Bhd</td>
<td>No. 8, Block G, Ground Floor, Taipan 2 Jalan PJU 1A/3 Ara Damansara 47301, Petaling Jaya, Selangor, Malaysia</td>
<td>+60-3-7843-6833</td>
<td></td>
</tr>
<tr>
<td>Poisons Information Centre</td>
<td>Westmead NSW</td>
<td>1800-251525</td>
<td></td>
</tr>
<tr>
<td>Chemcall</td>
<td>Australia</td>
<td>131126</td>
<td></td>
</tr>
<tr>
<td>Chemcall</td>
<td>New Zealand</td>
<td>1800-127406</td>
<td></td>
</tr>
<tr>
<td>Chemcall</td>
<td></td>
<td>+64-4-9179888</td>
<td></td>
</tr>
</tbody>
</table>

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)
### 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>Proprietary Vegetable Wax/Hydrogenated Soybean Blend</td>
<td>No Data Available</td>
<td>-**-*</td>
<td>100.0 %</td>
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</table>

### 4. FIRST AID MEASURES

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

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swallowed</td>
<td>No first aid should be needed. Get medical advice if large amount is swallowed and adverse effects develop. Immediately flush eye with water while lifting the upper and lower lids. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Eye</td>
<td>Wash with soap and water. Get medical attention if irritation develops. For contact with hot material immediately immerse burned area in cold water until the wax has cooled completely. If the burned area is small and the burn minor, carefully peel off the hardened wax without damaging the skin. For larger areas or a more serious burn, do not attempt to remove the wax as that may further damage the skin. Get medical attention immediately.</td>
</tr>
<tr>
<td>Skin</td>
<td>Remove victim to fresh air. Get medical attention if irritation develops or persists.</td>
</tr>
<tr>
<td>Inhaled</td>
<td>Treat symptomatically based on judgement of doctor and individual reactions of patient. Immediate medical attention may be required for extensive thermal burns from hot wax. No medical attention normally required for exposure to ambient temperature material.</td>
</tr>
</tbody>
</table>

**Advice to Doctor**

- Treat symptomatically based on judgement of doctor and individual reactions of patient. Immediate medical attention may be required for extensive thermal burns from hot wax. No medical attention normally required for exposure to ambient temperature material.

**Medical Conditions Aggravated by Exposure**

- No information available on medical conditions aggravated by exposure to this product. Only mild irritation is expected from contact or inhalation exposure.
- Hot wax can cause serious thermal burns to exposed tissue. Administer first aid procedures and seek emergency medical treatment immediately.

### 5. FIRE FIGHTING MEASURES

**Flammability Conditions**

- Product is a non-flammable solid.

**Extinguishing Media**

- Use foam, carbon dioxide or dry chemical. Because water can spread the fire, it is advisable to avoid a direct water stream for extinguishing.

**Fire and Explosion Hazard**

- Potential flammability hazard when wax vapours are exposed to heat or flame. During a fire carbon monoxide and carbon dioxide gases may be generated by thermal decomposition or combustion.

**Hazardous Products of Combustion**

- Non-combustible solid. Incompatible with strong oxidising agents, and sources of ignition. Hazardous decomposition products may include Oxides of carbon and traces of incompletely burned carbon compounds. Combustible products such as rags, waste paper or filter clay saturated with oil may heat and burn spontaneously.

**Personal Protective Equipment**

- 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). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.
- Move exposed containers from fire area if it can be done without risk.
- Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

**Flash Point**

- >200 °C Open Cup

**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
Avoid accidents, clean up immediately. Slippery when spilt. Personnel involved in the clean up should wear full protective clothing as listed in section 8.

Caution: Slip Hazard. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Clean Up Procedures
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. Allow molten wax to harden then scrape up. Wash spill site with detergent and water.

Environmental Precautionary Measures
Confine spill with sand or other absorbent inert media. Do not allow the product to enter public drainage system or open water courses.

7. HANDLING AND STORAGE

Handling
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. Remove oil-soaked clothing and launder before re-use. Do not cut, weld, braze, etc. on or near empty containers. Follow all MSDS precautions in handling empty containers.

Storage
Store in a cool, dry, well-ventilated area (preferably at 22°C). 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. Keep away from excessive heat and open flames. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container
Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General
No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the following has been provided: PROPRIETARY VEGETABLE WAX/HYDROGENATED SOYBEAN BLEND (as vegetable oil mist); US OEL: TWA (OSHA) = 5mg/m³ PEL (Respirable Fraction) TWA (OSHA) = 15mg/m³ PEL (as Total Particulate) 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. 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.

Exposure Limits
No Data Available

Biological Limits
No information available on biological limit values for this product.

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
RESPIRATOR: None needed under normal use conditions with adequate ventilation. If the exposure limit is exceeded or irritation is experienced, use an approved respirator with an R or P series filter (or equivalent) (AS1715/1716).
EYES: Use proper protection - safety glasses as a minimum (AS1336/1337).
HANDS: None normally needed under ambient conditions. If the product is heated, heat protective gloves should be used (AS2161).
CLOTHING: Impervious clothing is recommended if needed to avoid prolonged/ repeated skin contact. Wear long sleeves and pants when handling hot material (AS3765/2210).

Work Hygienic Practices
No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid

Appearance
Oily Solid
Odour: Faint Odour
Colour: White to off white at ambient temperature, Liquid - Amber
pH: No Data Available
Vapour Pressure: No Data Available
Relative Vapour Density: >1.0
Boiling Point: No Data Available
Melting Point: 43.3 - 79.4 °C AOCS Cc18-80
Freezing Point: No Data Available
Solubility: Insoluble 25°C
Specific Gravity: <0.890 - 0.894 ASTM D1298-55
Flash Point: >200 °C Open Cup
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
Specific Heat: No Data Available
Molecular Weight: No Data Available
Net Propellant Weight: No Data Available
Octanol Water Coefficient: No Data Available
Particle Size: No Data Available
Partition Coefficient: No Data Available
Saturated Vapour Concentration: No Data Available
Vapour Temperature: No Data Available
Viscosity: 10.0 (@ No Data Available)
Volatile Percent: No Data Available
VOC Volume: No Data Available
Additional Characteristics: Congealing point : 33.9°C - 58.9°C
                      Gas may be combustible at high temperature.
Potential for Dust Explosion: No Data Available
Fast or Intensely Burning Characteristics: No Data Available
Flame Propagation or Burning Rate of Solid Materials: No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire: No Data Available
Properties That May Initiate or Contribute to Fire Intensity: No Data Available
Reactions That Release Gases or Vapours: No Data Available
Release of Invisible Flammable Vapours and Gases: No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid: the product is combustible when heated over 232°C.
Materials to Avoid: Incompatible with strong oxidising agents, strong alkali and sources of ignition.
                      Thermal decomposition or incomplete combustion may produce carbon monoxide, carbon dioxide and irritating
Hazardous Decomposition Products
fumes.

Hazardous Polymerisation
Spontaneous combustion can occur. High surface area exposure to oxygen can result in polymerization and release of heat.

11. TOXICOLOGICAL INFORMATION

General Information
Hydrogenated Soybean Blend: Oral LD50 Rat: >5000mg/Kg Skin corrosion/irritation: Slightly irritating in laboratory animals Eye damage/ irritation: Slightly irritating in laboratory animals Skin Sensitization: Negative in guinea pig maximization test. Not sensitizing in tests with humans. Carcinogenicity: No carcinogenic effects were observed in studies with rats, mice or rabbits in long-term feeding studies. None of the components of this product are listed as carcinogens by OSHA, ACGIH, IARC, NTP, or the EU Dangerous Substances Directive. Reproductive Toxicity: No adverse reproductive effects or developmental effects were observed in a two generation and other life-time feeding studies in rats. Specific Target Organ Toxicity: Single Exposure: No data available Repeat Exposure: No adverse effects were observed in studies with rats, mice or rabbits in long-term feeding studies.

Eye Irritant
May unlikely to cause eye irritation. Hot molten product may cause thermal burns and severe corneal damage.

Ingestion
No adverse effects are normally expected. Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

Inhalation
Not volatile. It is not likely to be an inhalation hazard at normal temperatures. If overheated, fumes and vapours may irritate the breathing passages and lungs.

Skin Irritant
Unlikely to cause skin irritation. Long or repeated contact with skin may cause dermatitis in certain sensitive individuals. Hot molten product may cause thermal burns.

Carcinogen Category
No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity
This material is not expected to be hazardous to aquatic organisms.

Persistence/ Degradability
Product is biodegradable.

Mobility
No information available on mobility for this product. Insoluble in water.

Environmental Fate
Avoid contaminating waterways, drains and sewers.

Bioaccumulation Potential
No information available on bioaccumulation for this product.

Environmental Impact
No Data Available

13. DISPOSAL CONSIDERATIONS

General Information
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.

Special Precautions for Land Fill
Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION
Land Transport (Australia)
ADG

Proper Shipping Name: SOY WAX - NATURE WAX
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

Sea Transport
IMDG

Proper Shipping Name: SOY WAX - NATURE WAX
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

Air Transport
IATA

Proper Shipping Name: SOY WAX - NATURE WAX
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

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

National/Regional Inventories

Australia (AICS): Not Listed
<table>
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<tr>
<th>Country/Region</th>
<th>Determined Status</th>
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<td>Canada (DSL)</td>
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<td>Switzerland (Inventory of Notified Substances)</td>
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<td>Taiwan (NCSR)</td>
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<td>USA (TSCA)</td>
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16. OTHER INFORMATION

**Related Product Codes**

<table>
<thead>
<tr>
<th>Product Codes</th>
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<tbody>
<tr>
<td>SOYWAX0100, SOYWAX0500, SOYWAX1000, SOYWAX0200, SOYWAX0300, SOYWAX2000, SOYWAX2200, SOYWAX2100, SOYWAX2300, SOYWAX2400</td>
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</table>

**Revision**

2

**Revision Date**

16 Jun 2014

**Reason for Issue**

Updated SDS

**Key/Legend**

- Less Than
- Greater Than
- ACS Australian Inventory of Chemical Substances
- atm Atmosphere
- CAS Chemical Abstracts Service (Registry Number)
- cm³ 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.
- lt 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.
m Millimetre
mmH₂O 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