SAFETY DATA SHEET
PARAFFIN WAX
REVISION 5, DATE 01 JAN 22

1. IDENTIFICATION

Product Name	**Paraffin Wax**
Other Names	Fully refined paraffin wax; Hydrotreated paraffin wax; Paraffin Wax FR; Semi Refined Paraffin Wax
Uses	Applications in construction and roads; Manufacture of explosives; Polymer processing; Production and processing of rubber; use as binders and release agents, as fuel, functional fluids; Intermediate; laboratory use, in lubricants and coatings.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Paraffin waxes (petroleum), hydrotreated
Product Description	No Data Available

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 Sengalor, 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 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +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)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Paraffin waxes (petroleum), hydrotreated	Unspecified	64742-51-4	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give small quantities of water to drink. Get medical advice/attention if you feel unwell. Do not induce vomiting unless directed to do so by medical personnel.

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.
*In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance.

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. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
*Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Medical Conditions Aggravated by Exposure No information available.

5. FIRE FIGHTING MEASURES

General Measures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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 material; May burn but does not ignite readily.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets. Use of water on molten product may lead to steam eruptions causing molten product to be ejected.
Fire and Explosion Hazard	Solids may melt and flow when heated or involved in a fire.
Hazardous Products of Combustion	Fire may produce dense smoke and irritating/toxic fumes, including Carbon 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	>190 °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	No action shall be taken involving any personal risk or without suitable training. Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material - Slippery on floors, especially when wet! Avoid generating dust. Avoid breathing dust/fume and contact with eyes, skin and clothing.
Clean Up Procedures	Collect material and seal in suitable, properly labelled containers for disposal (see SECTION 13). *For molten material, allow to solidify.
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination	After spills, wash area, preventing run off from entering drains.
Environmental Precautionary Measures	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.
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/fumes from heating operations and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Avoid contact with incompatible materials.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Use appropriate containment to avoid environmental contamination.
Container	Keep in the original container. Do not store in unlabelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Paraffin wax (fume): - Safe Work Australia Exposure Standard: TWA = 2 mg/m3 - New Zealand Workplace Exposure Standard: TWA = 2 mg/m3 - NIOSH REL: TWA = 2 mg/m3

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: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour/particulate respirator (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields or chemical goggles, as appropriate. - Hand protection: Handle with gloves. Recommended: Chemical-resistant gloves. For hot/molten product, wear heat insulated protective gloves. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls or similar protective apparel, preferably with an apron; Closed shoes or safety boots, as appropriate.
Special Hazards Precaustions	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Waxy solid (prills, pellets or slabs)
Odour	Odourless to slight, characteristic
Colour	White to slightly yellowish or amber
pH	No Data Available
Vapour Pressure	Negligible (@ No Data Available)
Relative Vapour Density	No Data Available
Boiling Point	Decomposes
Melting Point	50 - 82 °C
Freezing Point	No Data Available
Solubility	Negligible solubility in water
Specific Gravity	0.87 - 0.92 (Water = 1)
Flash Point	>190 °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	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	No information available.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	Use of water on molten product may lead to steam eruptions causing molten product to be ejected.
Properties That May Initiate or Contribute to Fire Intensity	Combustible material; May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce dense smoke and irritating/toxic fumes, including Carbon oxides.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical Stability	The product is stable under normal conditions of use.
Conditions to Avoid	Avoid overheating. Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with strong oxidisers, strong caustics.
Hazardous Decomposition Products	Fire/decomposition may produce dense smoke and irritating/toxic fumes, including Carbon oxides.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Information on possible routes of exposure: - Ingestion: Not expected to be harmful if swallowed; large amounts may cause nausea and vomiting. - Eye contact: Not expected to be harmful at room temperature. Contact with powder may cause mechanical irritation. At elevated temperatures, fume may be mildly irritating. - Skin contact: Not expected to be harmful at room temperature. Prolonged or repeated contact may cause irritation. Contact with molten substance may cause severe burns. - Inhalation: At room temperature there are no vapours and no inhalation hazard. If overheated, fume/vapours may cause irritation of the nose, throat and lungs; and may cause headaches, nausea, loss of coordination. Chronic effects: Respiratory problems may arise from continued poor handling practice.
Acute	
Ingestion	Acute toxicity (Oral): - LD50, Rat: >2,000 mg/kg [Supplier's SDS].
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence/Degradability	No information available.
Mobility	Insoluble in water.
Environmental Fate	Slightly water polluting substance - Prevent entry into drains and waterways.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Special Precautions for Land Fill	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

14. TRANSPORT INFORMATION

General Information	Substances transported or offered for transport at elevated temperatures: UN3257: ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash-point (Class 9, PG-III).

Land Transport (Australia)

ADG Code

Proper Shipping Name	Paraffin Wax
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 (Fiji)

Proper Shipping Name	Paraffin Wax
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	Paraffin Wax
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	Paraffin Wax
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 (United States of America)
US DOT

Proper Shipping Name	Paraffin Wax
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.

Sea Transport
IMDG Code

Proper Shipping Name	Paraffin 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
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport
IATA DGR

Proper Shipping Name	Paraffin 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
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	Not Hazardous

National/Regional Inventories

Australia (AIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	265-154-5
Europe (REACh)	Listed
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	PARWAS1000, PARWAS1001, PARWAS1002, PARWAS1003, PARWAS1004, PARWAS1005, PARWAS1006, PARWAS1007, PARWAS1008, PARWAS1009, PARWAS1200, PARWAS1201, PARWAS1202, PARWAS1203, PARWAS2000, PARWAS2200, PARWAS2400, PARWAS3000, PARWAS3500, PARWAS4000, PARWAS4500, PARWAS5800, PARWAX0158, PARWAX0160, PARWAX0200, PARWAX0201, PARWAX0300, PARWAX0600, PARWAX0800, PARWAX1000, PARWAX1001, PARWAX1002, PARWAX1003, PARWAX1004, PARWAX1005, PARWAX1006, PARWAX1007, PARWAX1008, PARWAX1009, PARWAX1010, PARWAX1011, PARWAX1012, PARWAX1013, PARWAX1014, PARWAX1015, PARWAX1016, PARWAX1017, PARWAX1100, PARWAX1101, PARWAX1102, PARWAX1199, PARWAX1200, PARWAX1201, PARWAX1202, PARWAX1203, PARWAX1204, PARWAX1205, PARWAX1206, PARWAX1207, PARWAX1208, PARWAX1209, PARWAX1210, PARWAX1211, PARWAX1212, PARWAX1213, PARWAX1214, PARWAX1215, PARWAX1216, PARWAX1300, PARWAX1301, PARWAX1302, PARWAX1303, PARWAX1304, PARWAX1305, PARWAX1400, PARWAX1401, PARWAX1402, PARWAX1403, PARWAX1404, PARWAX1405, PARWAX1500, PARWAX1501, PARWAX1600, PARWAX1800, PARWAX2000, PARWAX2001, PARWAX2002, PARWAX2200, PARWAX2300, PARWAX2400, PARWAX2500, PARWAX2501, PARWAX2700, PARWAX2800, PARWAX2875, PARWAX2950, PARWAX3000, PARWAX3001, PARWAX3002, PARWAX3003, PARWAX3004, PARWAX3005, PARWAX3006, PARWAX3010, PARWAX3011, PARWAX3500, PARWAX3501, PARWAX3502, PARWAX3600, PARWAX3601, PARWAX3602, PARWAX3700, PARWAX3800, PARWAX3900, PARWAX4000, PARWAX4100, PARWAX4200, PARWAX4300, PARWAX4400, PARWAX4500, PARWAX4600, PARWAX4700, PARWAX4850, PARWAX4900, PARWAX5000, PARWAX5001, PARWAX5002, PARWAX5200, PARWAX5300, PARWAX5500, PARWAX5600, PARWAX5800, PARWAX6000, PARWAX6001, PARWAX6100, PARWAX6101, PARWAX6200, PARWAX6300, PARWAX6400, PARWAX6600, PARWAX6601, PARWAX6650, PARWAX6660, PARWAX6700, PARWAX6800, PARWAX6801, PARWAX6825, PARWAX6850, PARWAX6900, PARWAX7000, PARWAX7050, PARWAX7100, PARWAX7200, PARWAX7300, PARWAX7400, PARWAX7500, PARWAX7501, PARWAX7600, PARWAX8000, PARWAX8001, PARWAX8002, PARWAX8100, PARWAX8200, PARWAX8201, PARWAX8300, PARWAX8301, PARWAX8400, PARWAX8401, PARWAX8500, PARWAX8501, PARWAX8600, PARWAX8700, PARWAX8701, PARWAX9000, PARWAX9500, PARWAX9501, PARWAX9600, PARWAX9601, PARWAX9700
Revision	5
Revision Date	01 Jan 2022
Key/Legend	< Less Than > Greater Than **AICS** Australian Inventory of Chemical Substances **atm** Atmosphere **CAS** Chemical Abstracts Service (Registry Number) **cm^2** Square Centimetres **CO2** 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^3** 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 **inH2O** Inch of Water **K** Kelvin

kg Kilogram
kg/m^3 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
m^3 Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m^3 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
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