

1. IDENTIFICATION

Gum Rosin
Colophony; Disproportionated rosin; Gum Rosin WW
Used in hot-melt, pressure sensitive and solvent adhesives, to increase tackiness and improve bonding strength.
No Data Available
Unspecified
Rosin
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

Redox Ltd

Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

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Australia Adelaide Brisbane Melbourne Perth UK Sydney

New Zealand Malaysia Auckland Christchurch USA Hawke's Bay Oakland Mexico London Saltillo

Kuala Lumpur Los Angeles



Globally Harmonised Syste	em		
Hazard Classification		Hazardous according t Chemicals (GHS)	to the criteria of the Globally Harmonised System of Classification and Labelling of
Hazard Categories		Sensitisation (Skin) - C	ategory 1
Pictograms			
Signal Word		Warning	
Hazard Statements		H317	May cause an allergic skin reaction.
Precautionary Statements	Prevention	P272	Contaminated work clothing should not be allowed out of the workplace.
		P280	Wear protective gloves.
		P261	Avoid breathing dust/fumes.
	Response	P302 + P352	IF ON SKIN: Wash with plenty of water.
		P333 + P313	If skin irritation or rash occurs: Get medical advice.
		P363	Wash contaminated clothing before reuse.
	Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

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
Rosin	Unspecified	8050-09-7	100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure			
Swallowed	IF SWALLOWED: Rinse mouth with water, then drink a glass of water. Do not induce vomiting. Get medical advice/attention. 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 or rash 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		

Advice to DoctorTreat symptomatically.Medical Conditions Aggravated by
ExposureMay cause an allergic skin reaction.

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.
Flammal	bility Conditions	Combustible material; May burn but does not ignite readily.
Extinguis	shing Media	Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.
Fire and	Explosion Hazard	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardo Combust	us Products of tion	On burning will emit toxic fumes, including oxides of Carbon.
Special F	Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
Personal	Protective Equipment	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
Flash Po	int	218 °C
Lower Ex	plosion Limit	No Data Available
Upper Ex	plosion Limit	No Data Available
Auto Ign	ition Temperature	No Data Available
Hazchen	n Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material - Slippery when spilt. Avoid accidents, clean up immediately. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean Up Procedures	Collect spillage (sweep or vacuum up) and seal in properly labelled containers for disposal (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent entry into drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). WARNING! May form combustible dust concentrations in air (during processing). Avoid excess dust in the atmosphere since this is an explosion hazard in the presence of electrical sparks and static discharges. Avoid flammable vapours when removing shrink-wrap film from pallets, since these may ignite due to static electricity. Avoid overheating, especially by direct contact with naked flames. Avoid static build-up when emptying packaging. Earth all equipment and attach a grounding cable to the packaging grounding connection.

Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use - check regularly for spills. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10).
Container	The packaging material should have reasonable moisture and air barrier properties.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: - Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust). - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	 Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716). Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses. Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Nitrile rubber. Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes.
Special Hazards Precaustions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Transparent solid
Odour	Typical, rosin
Colour	Pale yellow - amber
рН	No Data Available
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	>=70 °C (Softening point)
Freezing Point	No Data Available
Solubility	Negligible solubility in water
Specific Gravity	1.060 - 1.085
Flash Point	218 °C
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

No Data Available
No Data Available
Essentially non-volatile
No Data Available
No information available.
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
No information available.
No information available.
This product may react oxidizing agents. Uncontrolled reaction may lead to a fire/explosion.
Combustible material.
On burning will emit toxic fumes, including oxides of Carbon.
No information available.

10. STABILITY AND REACTIVITY

General Information	This product has limited chemical reactivity. This product may react oxidizing agents. Uncontrolled reaction may lead to a fire/explosion.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid generating dust. Keep away from heat and sources of ignition. Take action to prevent static discharges.
Materials to Avoid	Incompatible/reactive with strong oxidising agents, strong acids, strong alkalis.
Hazardous Decomposition Products	No hazardous chemicals are known to be formed during the use of this product. On burning will emit toxic fumes, including oxides of Carbon.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	- Acute toxicity: Not acutely toxic following oral or dermal exposure. Low vapour pressure precludes inhalation exposure.
	Swallowing large amounts may cause nausea and vomiting.
	- Skin corrosion/sensitisation: Contact with skin may result in irritation.
	- Eye damage/irritation: May cause physical irritation to the eyes.
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- Respiratory/skin sensitisation: May cause an allergic skin reaction.
- Germ cell mutagenicity: Not mutagenic or clastogenic in bacterial and/or mammalian cells in vitro.
- Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- Reproductive toxicity: Not classified for reproductive or developmental toxicity.

- STOT (single exposure): Breathing in dust may result in respiratory irritation.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: No information available.

Acute	
Ingestion	Acute toxicity (Oral): - LD50, Rat: >2,000 mg/kg bw.
Other	Acute toxicity (Dermal): - LD50, Rat: >2,000 mg/kg bw.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity: - Acute LC50, Fish (Brachydanio rerio): 60.3 mg/l (96 h) static test [OECD Test Guideline 203].
Persistence/Degradability	This product will be slowly biodegradable. Not readily biodegradable (58 %, 28 d), aerobic [OECD Test Guideline 301B].
Mobility	No information available.
Environmental Fate	Prevent entry into drains and waterways.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with local/regional/national regulations.	
Special Precautions for Land Fill	ill Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a	
	combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.	

14. TRANSPORT INFORMATION

Land Transport (Australia) ADG Code	
Proper Shipping Name	Gum Rosin
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	Gum Rosin
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	Gum Rosin
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	Gum Rosin
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

INDO COUE	
Proper Shipping Name	Gum Rosin
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	Gum Rosin
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	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002503
	*HSR002804 (Revoked)

National/Regional Inventories

Australia (AIIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	232-475-7
Europe (REACh)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Determined

Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes	GUROSI0100, GUROSI0200, GUROSI0300, GUROSI0301, GUROSI0400, GUROSI1000, GUROSI1001, GUROSI1002, GUROSI1003, GUROSI1004, GUROSI1005, GUROSI1006, GUROSI1007, GUROSI1008, GUROSI1009, GUROSI1010, GUROSI1011, GUROSI1012, GUROSI1013, GUROSI1014, GUROSI1015, GUROSI1015, GUROSI1017, GUROSI1012, GUROSI1022, GUROSI1023, GUROSI1024, GUROSI1025, GUROSI1026, GUROSI1000, GUROSI1200, GUROSI1300, GUROSI1301, GUROSI1023, GUROSI1400, GUROSI1410, GUROSI1410, GUROSI1411, GUROSI1415, GUROSI1500, GUROSI1501, GUROSI1502, GUROSI15002, GUROSI15002, GUROSI15002, GUROSI1500, GUROSI1500, GUROSI1500, GUROSI2000, GUROSI2000, GUROSI2002, GUROSI2003, GUROSI2000, GUROSI2200, GUROSI2200, GUROSI2250, GUROSI2300, GUROSI2000, GUROSI3000, GUROSI3000, GUROSI3000, GUROSI3000, GUROSI3000, GUROSI3000, GUROSI3000, GUROSI4002, GUROSI4003, GUROSI4200, GUROSI4200, GUROSI400, GUROSI4000, GUROSI4001, GUROSI4002, GUROSI4003, GUROSI400, GUROSI4400, GUROSI4400, GUROSI4400, GUROSI4400, GUROSI4400, GUROSI4400, GUROSI4904, GUROSI4905, GUROSI4907, GUROSI4908, GUROSI4909, GUROSI4910, GUROSI4913, GUROSI4904, GUROSI4913, GUROSI4915, GUROSI4904, GUROSI4913, GUROSI4914, GUROSI4915, GUROSI4915, GUROSI4917, GUROSI4919, GUROSI4920, GUROSI4920, GUROSI5001, GUROSI5003, GUROSI5003, GUROSI5400, GUROSI5200, GUROSI5400, GUROSI5400, GUROSI5400, GUROSI5400, GUROSI5400, GUROSI5500, GUROSI5500, GUROSI5500, GUROSI5500, GUROSI5500, GUROSI5500, GUROSI5700, GUROSI5700, GUROSI5100, GUROSI5200, GUROSI5300, GUROSI5400, GUROSI5500, GUROSI5700, GUROSI5100, GUROSI5100, GUROSI5200, GUROSI5300, GUROSI5400, GUROSI5500, GUROSI7400, GUROSI5500, GUROSI7500, GUROSI7400, GUROSI5500, GUROSI7500, GUROSI7400, GUROSI5500, GUROSI7500, GUROSI8101, GUROSI8103, GUROSI8104, GUROSI8104, GUROSI8100, GUROSI8101, GUROSI8100, GUROSI8100, GUROSI9200, GUROSI9300, GUROSI8500, GUROSI8500, GUROSI8500, GUROSI9200, GUROSI9100, GUROSI9200, GUROSI9300, GUROSI8300, GUROSI8500, GUROSI8500, GUROSI9900, GUROS
Revision	5
Revision Date	16 Sep 2019
Reason for Issue	Updated SDS
Key/Legend	 Less Than Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO2 Carbon Dioxide COD Chemical Oxygen Demand deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (°F) Degrees Farenheit 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 insoluable in each other. inHg Inch of Mercury inH2O Inch of Water K Kelvin kg Kilogram kg/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. Itr or L Litre m³ Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH20 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