

# **1. IDENTIFICATION**

Product Name	Oleoresin - Coriander
Other Names	Coriander oil; Coriander, ext. [CAS#84775-50-8]
Uses	Food flavouring.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Oils, coriander
Product Description	Coriandrum sativum L. Solvent extraction of the dried seeds.

### 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

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Australia Adelaide Brisbane Melbourne Perth UK Sydney

New Zealand Malaysia Auckland Kuala Lumpur Christchurch USA Los Angeles Hawke's Bay Oakland Mexico London Saltillo



Hazard Classification		Hazardous according to Chemicals (GHS)	o the criteria of the Globally Harmonised System of Classification and Labelling of
Hazard Categories		Skin Corrosion/Irritatior	n - Category 2
		Serious Eye Damage/Iri	ritation - Category 2A
		Sensitisation (Skin) - Ca	itegory 1B
		Aspiration Hazard - Cat	egory 1
		Long-term Hazard To T	he Aquatic Environment - Category 2
Pictograms			
Signal Word		Danger	
Hazard Statements		H304	May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.
		H317	May cause an allergic skin reaction.
		H319	Causes serious eye irritation.
		H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	Prevention	P280	Wear protective gloves/eye protection/face protection.
		P261	Avoid breathing mist/vapours/spray.
		P273	Avoid release to the environment.
		P272	Contaminated work clothing should not be allowed out of the workplace.
	Response	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
		P331	Do NOT induce vomiting.
		P302 + P352	IF ON SKIN: Wash with plenty of water/
		P337 + P313	If eye irritation persists: Get medical advice/attention.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
		P362	Take off contaminated clothing.
		P391	Collect spillage.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Storage	P405	Store locked up.
	Disposal	P501	Dispose of contents/container in accordance with local / regional / national /

### 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)

international regulations.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Coriander, ext.	Unspecified	8008-52-4	100 %

### **4. FIRST AID MEASURES**

Description of necessary measures according to routes of exposure			
Swallowed	IF SWALLOWED: Immediately call a Poison Centre or doctor/physician for advice. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person.		
Еуе	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 (or hair): Remove contaminated clothing and shoes immediately. Flush skin and hair with running water for at least 15 minutes. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.		
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	May 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.
Flammability Conditions	Combustible liquid; 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. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
Fire and Explosion Hazard	Containers may explode when heated.
Hazardous Products of Combustion	Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, unidentified organic compounds.
Special 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 Point	210 °C
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** 

Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures	Absorb with earth, sand or other non-combustible material and transfer to a suitable, properly labelled container for disposal (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.
Decontamination	No information available.
Environmental Precautionary Measures	Spillages and decontamination runoff should be prevented from entering drains and watercourses.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8). Large spill: Wear SCBA and chemical splash suit.

### 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. Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Take precautionary measures against static discharge. Avoid release to the environment - Collect spillage (see SECTION 6).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep cool. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
Container	Keep in the original container.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product.
Exposure Limits	No Data Available
<b>Biological Limits</b>	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	<ul> <li>Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour/particulate (A/P) filter respirator (refer to AS/NZS 1715 &amp; 1716).</li> <li>Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical goggles.</li> <li>Hand protection: Wear protective gloves. Recommended: Impervious gloves.</li> <li>Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes.</li> </ul>
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. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Oily liquid
Odour	Sweetly aromatic, fruity
Colour	Light yellow

рН	No Data Available
Vapour Pressure	No Data Available
<b>Relative Vapour Density</b>	No Data Available
Boiling Point	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Soluble in fixed oils
Specific Gravity	No Data Available
Flash Point	210 °C
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
<b>Decomposition Temperature</b>	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	Not applicable.
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	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid; May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, unidentified organic compounds.
Release of Invisible Flammable Vapours and Gases	No information available.

# **10. STABILITY AND REACTIVITY**

General Information	Does not undergo any dangerous reactions under normal conditions.
Chemical Stability	Stable under normal operating conditions.
Conditions to Avoid	Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, unidentified organic
Products	compounds.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

## **11. TOXICOLOGICAL INFORMATION**

General Information	<ul> <li>Acute toxicity: Ingestion may cause queasiness, stomach pain; Aspiration hazard.</li> <li>Skin corrosion/irritation: Causes skin irritation and stinging.</li> <li>Eye damage/irritation: Causes serious eye irritation and reddening.</li> <li>Respiratory/skin sensitisation: May cause an allergic skin reaction.</li> <li>Germ cell mutagenicity: No information available.</li> <li>Carcinogenicity: No information available.</li> <li>Reproductive toxicity: No information available.</li> <li>STOT (single exposure): Breathing in mist/vapours/aerosol may cause respiratory disruptions, chocking, drowsiness.</li> <li>STOT (repeated exposure): No information available.</li> <li>Aspiration toxicity: May be fatal if swallowed and enters airways.</li> </ul>
Carcinogen Category	None

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity	No information available.	
Persistence/Degradability	Readily biodegradable.	
Mobility	No information available.	
Environmental Fate	Toxic to aquatic life with long lasting effects - Avoid release to the environment.	
<b>Bioaccumulation Potential</b>	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	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **14. TRANSPORT INFORMATION**

<b>Land Transport (Australia)</b> ADG Code	
Proper Shipping Name	Oleoresin - Coriander
Class	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	No Data Available
Hazchem	No Data Available

Pack Group	No Data Available
Special Provision	AU01
Comments	UN3082: Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs.
<b>Land Transport (Malaysia)</b> ADR Code	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cardamom oleoresin)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3002 3Z
Pack Group	
Special Provision	No Data Available
<b>Land Transport (New Zealand)</b> NZS5433	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cardamom oleoresin)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available
Land Transport (United States of America) US DOT	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cardamom oleoresin)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
ERG	171 Substances (Low to Moderate Hazard)
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available
<b>Sea Transport</b> IMDG Code	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cardamom oleoresin)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available
EMS	F-A, S-F

Marine Pollutant	Yes
<b>Air Transport</b> IATA DGR	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Coriander oleoresin)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
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

## Environmental Protection Authority (New Zealand) Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Assessed
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## **National/Regional Inventories**

Australia (AIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	283-880-0
Europe (REACh)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Not Determined
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**

Revision     2       Revision Date     11 Feb 2020       Key/Legend     < Less Than       > Greater Than	
Key/Legend     < Less Than       > Greater Than	
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 CO2 Carbon Dioxide COD Chemical Oxygen Demand deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of Ne deg F (°F) Degrees Farenheit g Grams g/cm <sup>3</sup> Grams per Cubic Centimetre g/I 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 inH20 Inch of Mercury inH20 Inch of Mater K Kelvin kg Kilograms per Cubic Metre Ib Pound LC50 LC stands for lethal concentration. LC50 is the concent (one half) of a group of test animals. The material is inhaled o LD50 LD stands for Lethal Dose. LD50 is the amount of a mal half) of a group of test animals. Itr or L Litre m <sup>3</sup> Cubic Metre mbar Milligram mg/kg Milligrams per 24 Hours mg/kg Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase mm Millimetre mH20 Millimetres of Water mPa.s Milligacals 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 Developp Oz Ounce PEL Permissible Exposure Limit Pa Pascal	ration of a material in air which causes the death of 50% ver a set period of time, usually 1 or 4 hours. terial, given all at once, which causes the death of 50% (one

pb Parts per Billion
ppm Parts per Million per 2 Hours
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