

#### 1. IDENTIFICATION

**Product Name Calcium Lignosulfonate Liquid** 

Calcium Lignosulphonate 50% w/w Solution; Lignin calcium sulfonate **Other Names** 

Uses Industrial.

No Data Available **Chemical Family Chemical Formula** Unspecified

**Chemical Name** Lignosulfonic acid, calcium salt, aqueous solution

**Product Description** No Data Available

# **Contact Details of the Supplier of this Safety Data Sheet**

Organisation Location Telephone Redox Ltd 2 Swettenham Road +61-2-97333000

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Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

## **Emergency Contact Details**

Organication

For emergencies only; DO NOT contact these companies for general product advice.

Location

Organisation	Location	reiepriorie
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

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## 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
Calcium lignosulfonate	Unspecified	8061-52-7	48 - 52 %
Water	H20	7732-18-5	Balance %

## **4. FIRST AID MEASURES**

## Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water, then give water to drink. Do not induce vomiting. Get medical advice/attention if

you feel unwell.

**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.

**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.

Medical Conditions Aggravated by No information available.

**Exposure** 

## **5. FIRE FIGHTING MEASURES**

**General Measures** Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible; However, following evaporation of the aqueous component under fire conditions, the non-aqueous

component may decompose and/or burn.

Extinguishing Media If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

Fire and Explosion Hazard Containers may explode when heated.

Fire may produce irritating and/or toxic gases, including nitrous gasses, carbon monoxide and carbon dioxide.

**Hazardous Products of** 

Combustion

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

No Data Available
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. Do not touch or walk through spilled material - May be slippery when spilled! Avoid

breathing mists or aerosols and contact with eyes, skin and clothing.

Clean Up Procedures Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION

13).

**Containment** Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far

ahead of large spill for later disposal.

**Decontamination** Wash away remnants with water.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Immediately isolate spill or leak area. Keep unauthorised personnel away.

## 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 mists or aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see

SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use. Keep

away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).

**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

**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: Wear an

approved spray mask where mists are generated (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or splash

goggles.

- Hand protection: Handle with gloves. Recommended: Wear chemical-resistant gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Chemical resistant coveralls and safety footwear.

**Special Hazards Precaustions** 

No information available.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance Liquid

**Odour** Weak, characteristic

**Colour** Dark olive to black or brown

3.0 - 6.0 pН **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** No Data Available **Freezing Point** No Data Available Solubility Miscible with water **Specific Gravity** No Data Available Flash Point No Data Available **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 1.24 - 1.29 g/ml Density **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

Viscosity No Data Available
Volatile Percent No Data Available

VOC Volume No Data Available

Potential for Dust Explosion Not applicable.

**Fast or Intensely Burning** 

**Additional Characteristics** 

**Partition Coefficient** 

**Vapour Temperature** 

**Saturated Vapour Concentration** 

Characteristics

No information available.

No information available.

No Data Available

No Data Available

No Data Available

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible; However, following evaporation of the aqueous component under fire conditions, the non-aqueous

component may decompose and/or burn.

Reactions That Release Gases or Vapours

Fire/thermal decomposition may produce irritating and/or toxic gases, including nitrous gasses, carbon monoxide and carbon dioxide.

Release of Invisible Flammable

Vapours and Gases

Fire

No information available.

### 10. STABILITY AND REACTIVITY

**General Information** No information available.

**Chemical Stability** Stable under normal storage and handling conditions.

**Conditions to Avoid** Avoid exposure to heat and sources of ignition. Avoid exposure to light.

Materials to Avoid Incompatible/reactive with strong oxidising agents, strong acids.

**Hazardous Decomposition** 

**Products** 

Fire/thermal decomposition may produce irritating and/or toxic gases, including nitrous gasses, carbon monoxide and

carbon dioxide.

**Hazardous Polymerisation** 

This product will not undergo polymerisation reactions.

#### 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: May result in nausea, vomiting, diarrhoea, abdominal pain and irritation to the gastrointestinal tract.

Eye contact: May be mildly irritating to eyes and result in redness, stinging and excessive tearing.
Skin contact: May cause mild irritation to the skin that may result in redness, itching or swelling.

- Inhalation: Breathing in mists or aerosols may cause respiratory irritation.

Chronic effects: No information available.

Acute

**Ingestion** Acute toxicity (Oral):

COMPONENT: Calcium lignosulfonate (CAS No. 8061-52-7):

- LD50, Rat: >5,000 mg/kg

Carcinogen Category None

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Negligible ecotoxicity.

Persistence/Degradability Biodegradable.

**Mobility** No information available.

**Environmental Fate** Prevent entry into drains and waterways.

**Bioaccumulation Potential** No bioaccumulation potential.

**Environmental Impact** No Data Available

## 13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container through a licensed waste contractor and in accordance with local/regional/national

regulations.

Special Precautions for Land Fill Rinse empty containers thoroughly before recycling or disposing to an authorised landfill.

#### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

Proper Shipping Name Calcium Lignosulphonate Liquid

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 Calcium Lignosulphonate Liquid

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 Calcium Lignosulphonate Liquid

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (United States of America)

**US DOT** 

Proper Shipping Name Calcium Lignosulphonate Liquid

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 Calcium Lignosulphonate Liquid

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 Calcium Lignosulphonate Liquid

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) Not Determined

Europe (REACh) Not Determined

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 CAPOWD7500, CASOLU2000, CASOLU7510, CASOLU7511

Revision 2

Revision Date 01 Aug 2019

Reason for Issue New SDS

Key/Legend < Less Than
> Greater Tha

> Greater Than

**AICS** Australian Inventory of Chemical Substances

**atm** Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 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<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 Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** 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

m<sup>3</sup> 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