

1. IDENTIFICATION

Product Name Calcium Lignosulphonate

Borresperse CA; CLS MG-2; LIGNOBOND DD **Other Names**

Uses Agrochemicals; Dispersing agent; Water-reducer for gypsum board; Plasticizer for cement and concrete.

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

Chemical Name Lignosulfonic acid, calcium salt

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

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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 +64-4-9179888 Chemcall Malaysia Chemcall New Zealand 0800-243622 +64-4-9179888 National Poisons Centre New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

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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)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Calcium lignosulphonate	Unspecified	8061-52-7	>=93 %
Water	H20	7732-18-5	<=7 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink 1- 2 glasses of water. 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 10 - 15 minutes or until

irritation subsides. If eye irritation persists, get medical advice/attention.

Skin IF ON SKIN: Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water/shower. If

skin irritation 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. Rinse mouth with water

and blow nose. If respiratory symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically.

*Most important symptoms and effects, both acute and delayed: None known.

Medical Conditions Aggravated by No information available.

Exposure

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.

Dike fire-control water for later disposal.

Flammability Conditions Combustible material; May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam and water spray for extinction. Do not scatter spilled material with high-

pressure water streams.

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.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic gases.

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

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

*Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

Containment Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined

areas.

>150 °C

Decontamination Wash area down with excess water.

Environmental Precautionary

Measures

Evacuation Criteria

Prevent entry into drains and waterways.

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! Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharges. Use spark-free tools

and explosion-proof equipment.

Storage Store in a cool, dry and well-ventilated area, out of direct sunlight. Keep container tightly closed. 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. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard for Nuisance dusts: 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES for 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: Wear respiratory protection in case of inadequate ventilation or when performing dusty work.

Recommended: Dust mask/particulate (P2) respirator (refer to AS/NZS 1715 & 1716).

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

- Hand protection: Handle with gloves. Recommended: Impervious gloves.

- 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. Wash hands before breaks, before using restroom facilities and at

the end of work. Take off contaminated clothing and wash it before reuse. Routine housekeeping should be instituted to

ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateSolidAppearancePowderOdourMild, weakColourBrown

pH 3.5 - 5.5 (solution for use)

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data Available

Melting Point >130 °C

Freezing Point

Solubility

Soluble in water

Specific Gravity

No Data Available

Flash Point

No Data Available

Auto Ignition Temp >150 °C

Evaporation Rate No Data Available **Bulk Density** 550 - 630 kg/m3 **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available No Data Available 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 **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 MIE: 0.2 J

> MITdc: 440 °C Kst: 159 m*bar/s Pmax: 8.4 bar ST class: 1

Potential for Dust Explosion

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.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

No information available.

Non-Flammables That Could

Contribute Unusual Hazards to a

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 may produce irritating and/or toxic gases.

Release of Invisible Flammable Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information Not reactive.

Chemical Stability The substance is stable when used in accordance with the supplier's directions.

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition. Take precautionary measures against static

discharges.

Materials to Avoid Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition

Products

Fire may produce irritating and/or toxic gases.

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information

Information on toxicological effects:

- Acute toxicity: Based on existing data, the classification criteria are deemed not to have been met.
- Skin corrosion/irritation: Based on existing data, the classification criteria are deemed not to have been met. Nonirritating (Rabbit) [OECD 404].
- Serious eye damage/irritation: Based on existing data, the classification criteria are deemed not to have been met. Nonirritating (Rabbit) [OECD 405].
- Respiratory/skin sensitisation: Based on existing data, the classification criteria are deemed not to have been met. Nonsensitising (Mouse) [OECD 429].
- Germ cell mutagenicity: No information available.
- Carcinogenicity: No information available.
- Reproductive toxicity: No information available.
- STOT (single exposure): No information available.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: No information available.

Information on likely routes of exposure:

- Ingestion: No adverse effects expected.

- Eye contact: May cause physical irritation to the eyes.

- Skin contact: Repeated or prolonged skin contact may lead to irritation.

- Inhalation: Breathing in dust may result in 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 Aquatic toxicity:

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

EC50, Fish (Brachydanio rerio): >1,000 mg/l (96 h) [Similar product; Supplier's SDS].
 EC50, Crustacea (Daphnia magna): >1,000 mg/l (48 h) [Similar product; Supplier's SDS].
 EC50, Algae (Scenedesmus subspicatus): >600 mg/l (72 h) [Similar product; Supplier's SDS].

*Based on existing data, the classification criteria are deemed not to have been met.

Persistence/Degradability Expected to be biodegradable.

Mobility Completely miscible with water.

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential No bioaccumulation expected.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General InformationDispose of contents/container in accordance with local/regional/national regulations. **Special Precautions for Land Fill**Do not discharge large quantities of concentrated spills and residue into drains.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

UN Number

Hazchem

Pack Group

Proper Shipping Name Calcium lignosulphonate

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

No Data Available No Data Available 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

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 (New Zealand)

NZS5433

Proper Shipping Name Calcium lignosulphonate

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

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

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

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) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes CAPOWD1000, CAPOWD1001, CAPOWD1002, CAPOWD1003, CAPOWD1004, CAPOWD1005, CAPOWD1006,

CAPOWD1007, CAPOWD1008, CAPOWD1009, CAPOWD1010, CAPOWD1500, CAPOWD1700, CAPOWD1760, CAPOWD1800,

CAPOWD1810, CAPOWD2000, CAPOWD2500, CAPOWD2800, CAPOWD2805, CAPOWD2850, CAPOWD3000, CAPOWD3001, CAPOWD3500, CAPOWD3600, CAPOWD3700, CAPOWD3800, CAPOWD3810, CAPOWD3900, CAPOWD4000, CAPOWD4500, CAPOWD5001, CAPOWD5101, CAPOWD5500, CAPOWD5600, CAPOWD6000, CAPOWD6001, CAPOWD6002, CAPOWD6100, CAPOWD6200, CAPOWD6300, CAPOWD6500, CAPOWD6501, CAPOWD6600, CAPOWD6700, CAPOWD6800, CAPOWD7400, CAPOWD7401, CAPOWD7410, CAPOWD7420, CAPOWD7450, CAPOWD7460, CAPOWD8000, CAPOWD8100,

CAPOWD8150, CAPOWD9500, CAPOWD9910

Revision 5

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/cm³ 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 inH2O 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 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