

Safety Data Sheet

NORLIG - 58% ROADBINDER LIQUID

Issued: 15/05/2015

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: NORLIG - 58% ROADBINDER LIQUID

Synonyms: Calcium lignosulfonate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Binder
Dispersing agent

1.3. Details of the supplier of the safety data sheet

Supplier

Company: LignoTech USA, Inc
Address: 100 Grand Avenue
Rothschild, WI 54474-1198

Zip code:

Country: UNITED STATES

E-mail: customer@ltus.com

Phone: +1(715)359-6544

Fax: +1(715)355-3648

1.4. Emergency Telephone Number

+1(715)359-6544 (Emergency phone)
+1(800)424-9300 (Chemtrec phone) (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Classification - other information: The product does not have to be classified.

2.2. Label elements

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Calcium lignosulfonate	8061-52-7			~ 58%		
Water	7732-18-5	23-17-912		~ 42%		

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Please see section 16 for the full text of R-phrases and H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air, wash out mouth with water and blow nose thoroughly.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Skin contact:	Wash the skin with water. Remove contaminated clothing.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Not applicable.
Unsuitable extinguishing media:	Not applicable.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

No special requirements. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in an area with secondary containment.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

8.2. Exposure controls

Appropriate engineering controls: Provide sufficient ventilation during operations which cause vapour formation.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, hand protection: Wear gloves.

Personal protective equipment, skin protection: Wear suitable protective clothing.

Personal protective equipment, respiratory protection: Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Brown
Odour	Mild
Solubility	Water soluble.
Explosive properties	
Oxidising properties	

Parameter	Value/unit	Remarks
pH (solution for use)	3 - 4.5	
pH (concentrate)		Not applicable.
Melting point	°C	Not applicable.
Freezing point	-2 °C	
Initial boiling point and boiling range	104 °C	
Flash Point	°C	Not applicable.
Evaporation rate	0.4	Water.
Flammability (solid, gas)		Not applicable.
Flammability limits		Not applicable.
Explosion limits	vol%	Not applicable.
Vapour pressure	14.2 mmHg	20 °C
Vapour density		20 °C

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Relative density	1.302	Specific gravity.
Partition coefficient n-octanol/water		100% Water.
Auto-ignition temperature	°C	Not applicable.
Decomposition temperature	°C	Not applicable.
Viscosity	< 600 cSt	
Odour threshold	ppm	Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Calcium lignosulfonate

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

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

Acute toxicity - inhalation: The product does not have to be classified.

Skin corrosion/irritation: The product does not have to be classified.

Serious eye damage/eye irritation: The product does not have to be classified.

Respiratory sensitisation or skin sensitisation: None known.

Germ cell mutagenicity: None known.

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Carcinogenic properties: The product does not have to be classified.

SECTION 12: Ecological information

12.1. Toxicity

Calcium lignosulfonate

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Brachydanio rerio	96h	EC50	> 1000mg/l			Similar product
Acute algae	Scenedesmus subspicatus	24, 48, 72h	EC50	> 600mg/l			Similar product
Acute Daphnia	Daphnia magna	24, 48h	EC50	> 1000mg/l			Similar product

No effect on the environment. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Partially biodegradable 0.14-0.26 lbs BOD/lb of solids & 0.49-0.91 lbs. COD/lb solids.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Solubility in water: Completely miscible

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with Local Authority requirements.

SECTION 14: Transport information

14.1. UN-No.: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

None.

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

Other Information: DOT Class 55 Lignin Pitch - Harmonized Tariff Code for US:3804.00.1000-0

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions: ADR/RID (2007) ECHA FAQ 7.7. GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

Authorisations / limitations: Global inventory status:
Australia: On AICS Australian Inventory of Chemical Substances, June 1996 Ed
Canada: On DSL Supplement to Canada Gazette, Part I, January 26, 1991
China: On IECSC Inventory of Existing Chemical Substances in China, 2013
Japan: On ENCS Unlisted chemical name. For ENCS chemical class or category name, refer to ENCS No. 8-209.
Korea: On ECL Korean Existing Chemicals List, January 1997, ECL Serial No.: KE-04572
Mexico: On INSQ National Inventory of Chemical Substances in Mexico, 2012
New Zealand: On NZIoC New Zealand Inventory of Chemicals, 2006 May be used as a single component chemical under an appropriate group standard.
Philippines: On PICCS Philippines Inventory of Chemicals and Chemical Substances, 2000
Switzerland: On SWISS Giftliste 1 (List of Toxic Substances 1), 31 May 1999, SWISS No.: G-44534
USA: On TSCA Inventory January 2015 TSCA Inventory EPA Flags: XU Exempt from Update Rule

15.2. Chemical Safety Assessment

Other Information: The product does not have to be classified.

SECTION 16: Other information

Other Information: Government regulations for use of this product are summarized below:
21 CFR 173.310 - Boiler water additives
21 CFR 175.105 - Adhesives
21 CFR 176.120; 176.170; 176.180; 178.3120 - Paper and paperboard components
21 CFR 176.210 - Defoamers
21 CFR 177.1210 - Polymers
21 CFR 573.600 - Animal feed
21 CFR 582.99 - Substances generally recognized as safe
40 CFR 180.910; 180.920; 180.930; 21 CFR 172.715; 182.99 - Pesticides for Food

Vendor notes: Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

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