

# Safety Data Sheet

## BORREPLEX OA LIQUID

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

#### 1.1. Product identifier

Trade name: BORREPLEX OA LIQUID

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

Recommended uses: Dispersing agent  
Carbonate scale removal

Inadvisable uses: Reacts with strong bases.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Company: Borregaard USA, Inc  
Address: 100 Grand Avenue  
Rothschild, WI 54474-1198  
Country: UNITED STATES OF AMERICA  
E-mail: customer.bus@borregaard.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

HazCom classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

HazCom classification - other information: The product does not have to be classified.

#### 2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Substance	CAS No	Concentration	Notes
Water	7732-18-5	~ 45%	
Calcium lignosulfonate	8061-52-7		
Lignosulfonic acid	8062-15-5		

### 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.

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<b>Ingestion:</b>	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
<b>Skin contact:</b>	Wash the skin with water. Remove contaminated clothing.
<b>Eye contact:</b>	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.

### 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

Neutralize with alkaline material (Lime, crushed limestone, sodium bicarbonate or soda ash). Flush area with water.

### 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

### 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. May react with metals (iron, zinc, aluminum) to form highly flammable hydrogen gas which can form explosive mixtures with air.

### 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

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

**Personal protective equipment, eye/face protection:** #Not translated#

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

**Personal protective equipment, hand protection:** Wear gloves.

**Personal protective equipment, respiratory protection:** In case of risk of formation of spray mist, wear respiratory protective equipment with P2 filter.

### 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	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	2 - 3	
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	mmHg	20 °C
Vapour density		20 °C
Relative density	1.27	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.

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### 10.3. Possibility of hazardous reactions

May react with metals (iron, zinc, aluminum) to form highly flammable hydrogen gas which can form explosive mixtures with air.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong oxidisers. Metals (hydrogen formation)

### 10.6. Hazardous decomposition products

On contact with certain metals, hydrogen is formed which, together with air, may form an explosive mixture.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

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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.

**Serious eye damage/eye irritation:** Minimally irritating.

**Respiratory sensitisation or skin sensitisation:** None known.

**Germ cell mutagenicity:** None known.

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Not known.

### 12.2. Persistence and degradability

Partially biodegradable.

### 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

### 12.6. Other adverse effects

None known.

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### 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.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

#### 14.6. Special precautions for user

None.

#### 14.7. Transport in bulk according to Annex II of MARPOL 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 (2017), GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

**Authorisations / limitations:** Global Inv. Status:

#### NFPA ratings

**Health hazard:** 0

**Flammability:** 0

**Instability:** 0

#### 15.2. Chemical Safety Assessment

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

### SECTION 16: Other information

**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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