

# SAFETY DATA SHEET

## Borresperse CAF 53%

Last changed: 28/05/2013

Replaces date: 07/01/2013

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

#### 1.1. Product identifier

**Trade name** Borresperse CAF 53%  
**Synonyms** Lignosulfonsyre - Kalsiumsalt - Calcium lignosulphonate  
**CAS NO.** 8061-52-7;

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

**INADVISABLE USES:** None.

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

##### NATIONAL MANUFACTURER/IMPORTER

**Enterprise** Borregaard AS  
**Address** P.O. Box 162  
**Postal code** 1701 Sarpsborg  
**Country** Norway  
**Tel** + 47 69 11 80 00  
**Fax** + 47 69 11 87 70

##### CONTACT PERSON

Name	Email	Tel	Country
Nina Faye Haraldstad	MSDS@borregaard.com		

#### 1.4. Emergency telephone number

Emergency Phone	Type of assistance	Opening Hours
+47 69 11 88 88	Borregaard emergency no.	24 h
+47 22 59 13 00	National dept.for poisons information (Norway)	24 h

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**DPD Classification:**

**CLP Classification:**

Not classified. .

**Most serious harmful effects::**

#### 2.2. Label elements

**Signal word:** None

**EC-Label:** No

##### COMPOSITION

Calcium lignosulphonate (50 - 55 %)

#### 2.3. Other hazards

##### OTHER HAZARDS

None.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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Ingredient name	Reg. no.	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Calcium lignosulphonate			8061-52-7	50 - 55 %	No classification required	
Water			7732-18-5	45 - 50 %	No classification required	

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### INHALATION

Fresh air.

##### INGESTION

Drink plenty of water. Contact physician if symptoms appears.

##### SKIN

Rinse with water.

##### EYES

Rinse immediately with plenty of water. Remove any contact lenses and rinse with water for at least 15 minutes (keep the eyelids open).

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

##### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None.

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

##### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING MEDIA:

Extinguishing agent: carbon dioxide, powder, alcohol-resistant foam, a wide water jet or water mist.

##### UNSUITABLE EXTINGUISHING MEDIA

Do not use a direct water jet.

#### 5.2. Special hazards arising from the substance or mixture

#### 5.3. Advice for firefighters

##### ADVICE FOR FIREFIGHTERS

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### PERSONAL PRECAUTIONS

Wear necessary protective equipment.

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## 6.2. Environmental precautions

### ENVIRONMENTAL PRECAUTIONS

Keep run-off water out of sewers and water sources. Dike for water control.

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## 6.3. Methods and material for containment and cleaning up

### METHODS AND MATERIAL

Major spillage should be banked with sand, earth or similar material and collected into suitable enclosed containers for further incineration.

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## 6.4. Reference to other sections

### REFERENCES

See section 13 for instructions on disposal.

### OTHER INFORMATION

Not translated to EnglishCollect with vacuum cleaner or carefully sweep together and collect.

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## SECTION 7: Handling and storage

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Use suitable protective gloves, protective goggles and protective clothes if there is risk of direct contact or splashing.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in cool, dry, ventilated storage and closed containers.

### 7.3. SPECIFIC END USE(S)

Wear appropriate clothing to prevent repeated or prolonged skin contact.

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### MONITORING PROCEDURES

Use personal protective equipment.

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### 8.2. Exposure controls

#### APPROPRIATE ENGINEERING CONTROLS

Provide adequate general and local exhaust ventilation.

#### EYE PROTECTION

Use approved safety goggles or face shield.

#### SKIN PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash.

#### RESPIRATORY PROTECTION

No respirator is normally needed.

#### LIMITATION OF ENVIRONMENTAL EXPOSURE

Large quantities should be collected for incineration in accordance with the local regulations. Small quantities may be flushed to drains with plenty of water.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**STATE** Liquid.  
**COLOUR** Brown.  
**ODOUR** Weak characteristic odour.  
**SOLUBILITY** Water soluble.

Parameter	Value/unit	Method/reference	Observation
pH (concentrate)	No data		
pH (solution for use)	3,5 - 5,1		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	No data		
Flash point	No data		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temperature	No data		
Decomposition temperature	No data		
Viscosity	No data		

### 9.2. Other information

Parameter	Value/unit	Method/reference	Observation
Density	~ 1250 kg/m <sup>3</sup>		

Note no.	Comments
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## SECTION 10: Stability and reactivity

### 10.1. REACTIVITY

Not reactive.

### 10.2. CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None known.

### 10.4. CONDITIONS TO AVOID

None known.

### 10.5. INCOMPATIBLE MATERIALS

Avoid contact with oxidizing substances, strong acids and strong bases.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous reactions known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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## **ACUTE TOXICITY - DERMAL**

OECD 404, "Not classified as irritating to skin".

## **SERIOUS EYE DAMAGE/EYE IRRITATION**

OECD-test 405: "Not classified as eye irritant".

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## **SECTION 12: Ecological information**

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### **12.1. Toxicity**

#### **ECOTOXICITY**

Not regarded as dangerous for the environment.

### **12.2. Persistence and degradability**

#### **PERSISTENCE AND DEGRADABILITY**

Expected to be readily biodegradable.

### **12.3. Bioaccumulative potential**

#### **BIOACCUMULATIVE POTENTIAL**

Not bioaccumulating in water environments

### **12.4. Mobility in soil**

#### **MOBILITY**

Water soluble.

### **12.5. Results of PBT and vPvB assessment**

#### **RESULTS OF PBT AND VPVB ASSESSMENT**

The product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

#### **OTHER EFFECTS**

None known.

## **OTHER INFORMATION**

According to OECD Method No. 203, the product is not classified as toxic to fish.

According to Bringham & Kühn test growth inhibiting of micro-organisms (1977), it must be classified as not toxic to cell division of *Pseudomonas Putida* at concentrations <5g / l. According to the OECD method No. 302B, the product is classified as "inherently" biodegradable.

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## **SECTION 13: Disposal considerations**

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### **13.1. Waste treatment methods**

#### **GENERAL REGULATIONS**

Dump or destroy in accordance with official recommendations and applicable legislation.

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## **SECTION 14: Transport information**

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Classified as Dangerous Goods: **No**

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<b>Land transport (ADR/RID)</b>			
<b>14.1. UN number</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable	<b>14.5. Environmental hazards</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable		
<b>Hazard label(s)</b>	Not applicable		
<b>Hazard identification number</b>	Not applicable	<b>Tunnel restriction code</b>	Not applicable

<b>Inland water ways transport (ADN)</b>			
<b>14.1. UN number</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable	<b>14.5. Environmental hazards</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable		
<b>Hazard label(s)</b>	Not applicable		
<b>Environmental hazard in tank vessels</b>	Not applicable		

<b>Sea transport (IMDG)</b>			
<b>14.1. UN number</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable	<b>14.5. Environmental hazards</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable		
<b>Sub Risk:</b>	Not applicable		
<b>IMDG Code segregation group</b>	Not applicable		
<b>Marine pollutant</b>	Not applicable		
<b>EMS:</b>	Not applicable		

<b>Air transport (ICAO-TI / IATA-DGR)</b>			
<b>14.1. UN number</b>	Not applicable	<b>14.4. Packing group</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable		
<b>14.3. Transport hazard class(es)</b>	Not applicable		
<b>Hazard label(s)</b>	Not applicable		

## OTHER INFORMATION

Not classified as dangerous goods.

## SECTION 15: Regulatory information

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

### PROVISIONS

Guiding values for pollution in the working atmosphere (ADN) (Norway-2013).Regulation to dangerous waste from ministry of Norway (2005).Norwegian adaption to Annex 1 of directive 67/548/EEC.Norwegian regulations regarding classification and labelling of dangerous chemicals (incl.preparations)(2005) ADR/RID (2007).REACH (EC 1907/2006)ECHA FAQ 7.7GHS / CLP (EC NO1272/2008)

## 15.2. Chemical safety assessment

### OTHER INFORMATION

Not classified.

## SECTION 16: Other information

### Indication of changes

**ISSUED:** 16/01/2004

### Indication of changes

Version	Rev. date	Responsible	Changes
1.0.0	28/05/2013	Borregaard AS	General update (JUAA)

### 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.



# Borresperse CAF

## Product Description

Borresperse CAF is a refined calcium lignosulphonate based product used primarily in plasticizer for concrete, as water reducer for gypsum board and dispersing agent for agrochemicals.

CAS No. 8061-52-7 (Calcium lignosulphonate).

## Sales Specifications

		Test Method
Dry matter %	53.0 ± 3.0	BLT-311
pH (10% Solution)	4.3 ± 0.8	BLT-327
Insolubles (v/v) %	Max. 0.8	

Only active customers are notified of specification changes.

## Typical Values

### Chemical Data

Parameter	Unit
Reducing sugars	8 %
Calcium	5 %
Sulphur	7 %

### Physical Data

Parameter	
Colour	Brown
Density (directly at 20°C)	1250 kg/m <sup>3</sup>
Viscosity (directly at 20°C)	1000 mPas

All values calculated on solids where applicable

## Storage Stability:

Borresperse CAF is stable for several months under normal storage conditions.  
No biocide has been added.

## Compatibility:

Lignosulfonates are compatible with anionic and non-ionic materials, dispersants, wetting agents and most organic and inorganic materials.

## Delivery form:

Tank truck, container, ship loads

## Lead Time:

Two weeks lead time is typical.

**Safety Data Sheets** are available upon request.

**Please contact your LignoTech Sales Representative for additional product information.**