



# Safety Data Sheet

In accordance with REACH Regulation (EC) No. 1907/2006

Revision dated: 25/05/2011  
Version No. 5

## PRODUCT: ARBO C12

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / FIRM

#### 1.1 Product identifier

- Product name: calcium ammonium lignosulfonate
- Ammonium Lignosulfonate n°CAS 8061-53-8
- Calcium Lignosulfonate n°CAS 8061-52-7
- Product code: ARBO C12

#### 1.2 Identified relevant use of the substance or mixture and types of usage not recommended

The lignosulfonate has been approved as:

- Dispersant for concrete additives
- Plastifying additive for bricks and ceramics
- Tanning agents
- Deflocculant
- Bonding agent for fibreboards
- Binding agent for moulding of pellets, carbon black, fertilizers, activated carbon, foundry moulds
- Dust reduction agent during spraying for non-asphalted roads and dispersion in agricultural domain

*For applications, see [www.arbo.ca](http://www.arbo.ca)*

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

- Manufacturer:  
TEMBEC AVEBENE SAS  
221 route du Stade-BP10  
40400 TARTAS-FRANCE
- Service to be contacted:  
Sales engineering department  
Phone: (33) 05 58 73 56 19 or 05 57 96 52 80  
Fax: (33) 05 58 73 45 54 or 05 57 96 66 16  
E-mail: [avbn.advl@tembec.com](mailto:avbn.advl@tembec.com) / [jean-louis.bulliard@tembec.com](mailto:jean-louis.bulliard@tembec.com)

#### 1.4 Emergency call numbers

112

ORFILA Poison Control Centre: (33) 01 45 42 59 59

### 2. IDENTIFICATION OF DANGERS

#### 2.1 Classification of the substance or mixture

None

#### 2.2 Labelling elements

None

#### 2.3 Other dangers

Can be handled without danger, except for a potential risk of irritation of the eyes by the powder in case of contact with the eyes.

In the divided state, continued inhalation can irritate the respiratory tracts of a subject constantly exposed to a suspension in the air.

Contains sulphites that may cause an allergic reaction in sensitive subjects.

### 3. COMPOSITION / INFORMATION ABOUT CONSTITUENTS

#### Mixtures

Quantity of lime introduced in the process (inferior to 5%) :

CAS No : 1305-62-0      CE No : 215-137-3      Classification : H314/315 R38/41

## 4. FIRST AID

### 4.1 Description of First Aid

- **Contact with the eyes:** In case of contact with the eyes, wash abundantly with water. Consult an ophthalmologist if necessary.
- **Inhalation:** Breath fresh air. Consult a physician if necessary.
- **Ingestion:** Rinse the mouth and drink water. Consult a physician if necessary.
- **Contact with the skin:** Wash in large quantities of water.

### 4.2 Principal symptoms and effects, acute and latent

None

### 4.3 Indication of immediate medical care and particular treatments required

None

## 5. FIRE-FIGHTING METHODS

### 5.1 Means of extinction

Water spray

### 5.2 Particular dangers resulting from the substance or mixture

None

### 5.3 Recommendations for fire brigade

In case of fire, provide breathing apparatus for the rescue teams.

## 6. MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL SPILLAGE

### 6.1 Individual precautions, personal protection equipment and emergency procedures

Wear gloves, eyeglasses and dust mask.

### 6.2 Precautions for environmental protection

Avoid releasing the dust. Avoid discharge into water bodies and sewers.

### 6.3 Confinement and cleaning methods and equipment

Suck or contain by maintaining the product in dry form, if possible. Collect mechanically the major part of the spilled product and eliminate it or recycle it depending on usage and the form of collection authorised. Wash and rinse the area abundantly with water while avoiding discharge into the sewers.

### 6.4 References to other sections

For the elimination of wastes, refer to section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions to be taken for handling the product without danger

Wear gloves, eyeglasses and dust mask.

### 7.2 Conditions of safe storage, including incompatibilities if any

Separate the basic products: The mixture of strong alkalis can result in a confined release of ammonia.

Normal precautions during operations of transfer, for avoiding dust.

Risk of caking: Store in a dry, sheltered places.

### 7.3 Particular types of end use

In case of dissolution, avoid keeping the solutions in containers made of aluminium or aluminium alloys.

## 8. CONTROL OF EXPOSURE / PERSONAL PROTECTION

### 8.1 Control parameters

Substance	VME	VLCT
Total dust	10mg/m3	
Alveolar dust	5mg/m3	
Ammonia	7mg/m3	14mg/m3

### 8.2 Control of exposure:

- Respiratory protection: Dust mask while handling.
- Protection of hands: Protective gloves
- Protection of eyes: Eyeglasses
- Protection of skin: Protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on essential physical and chemical properties

- Appearance: Powder
- Colour: Light yellow to dark brown
- Odour: Burnt smell
- pH: from 4.7 to 5.7 at 25°C
- Median grain size: 80/90µm
- Temperature of auto-inflammation: 207°C
- Characteristic temperatures: Thermal decomposition at 207°C
- Solubility in water: Up to 1,000g/l
- Dispersion in water: 100% miscible
- Vapour pressure: None
- Density when tamped: 0.6/0.8

### 9.2 Other information

Fermentable, miscible, biodegradable

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

None

### 10.2 Chemical stability

Stable under normal ambient conditions

### 10.3 Possibility of dangerous reactions

Contact of the preparation in solution with alkaline medium can generate a release of ammonia.

### 10.4 Conditions to be avoided

Contact of the preparation in solution with alkaline medium can generate a release of ammonia.

### 10.5 Incompatible materials

Aluminium and its alloys

### 10.6 Dangerous decomposition products

CO, CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub> in case of confined combustion and critical heating

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

No known toxicity at present.

## 12. ECOLOGICAL INFORMATION

### 12.1 **Toxicity**

Aquatic toxicity for fish: LC50>100mg/litre

Toxicity for bacteria: TTC test > 5ml/litre

COD: 710kg/T

BOD: 140kg/T

### 12.2 **Persistence and degradability**

Product is biodegradable and fermentable: Affects the level of dissolved oxygen in receiving water streams in case of accidental dispersion in natural environment. Avoid massive localised discharges; can be eliminated by incineration under controlled conditions.

### 12.3 **Potential for bioaccumulation**

No data available.

### 12.4 **Mobility in the ground**

No data available.

### 12.5 **Results of PBT and vPvB evaluations**

No data available.

### 12.6 **Other harmful effects**

None

## 13. CONSIDERATIONS RELATING TO ELIMINATION

### 13.1 Method of wastes treatment

-Product: Collected mechanically or sucked into an absorbent substrate. Depending on the approved mode of treatment for recycling and elimination, it may be eliminated by combustion but through a suitably equipped furnace or sucked through a smoke collection and sulphur removal system.

-Packaging: Approved mode of treatment.

## 14. INFORMATION RELATING TO TRANSPORT

No particular regulatory measures with regard to transport of hazardous materials.

## 15. INFORMATION RELATING TO REGULATIONS

### 15.1 **Regulation/legislation specific to the substance or mixture regarding safety, health and environment**

Product for industrial use: Labelling according to regulation CLP No. 1272/2008

### 15.2 **Evaluation of chemical safety**

No evaluation of chemical safety necessary.

## 16. OTHER INFORMATION

Constituents risk phrases:

According to regulation CLP No. 1272/2008: R38: irritating to skin, R41: Risk of serious damage to eyes

According to directive 1999/45/CEE: H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

Modifications : Numéro CAS section 1/ Presence of lime section 3

Data sheet entirely reviewed for satisfying the REACH regulations.

The lignosulfonate is a natural polymer. It is exempted from registration under REACH Regulation No. 1907/2006