

# CALCIBOR

Safety Data Sheet dated 6/7/2011, version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

Mixture identification:  
Trade name: CALCIBOR  
Trade code: 160900

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

Recommended use:

Fertilizer for agricultural use

Professional use.

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

Company:  
ALBA MILAGRO International spa  
Via F. Corridoni 19 20015 Parabiago (MI) Italy  
ph +39 0522 972374

Competent person responsible for the safety data sheet:  
info@albamilagro.com

### 1.4. Emergency telephone number ph +39 0522 972374

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:



Xi Irritant

Xi

R Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

EC regulation criteria 1272/2008 (CLP):

The mixture is not classified as dangerous according to EC Regulation 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Symbols:



Xi Irritant

Xi

R Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

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S Phrases:

- S24 Avoid contact with skin.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.

Symbols:

None

Hazard Statements:

None

Precautionary Statements:

None

Special Provisions:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and corresponding classification:

15% - 20% calcium chloride

N.67/548/CEE: 017-013-00-2 CAS: 10043-52-4 EC: 233-140-8  
Xi; R36



3.3/2 Eye Irrit. 2 H319

7% - 10% 2-aminoethanol; ethanolamine

N.67/548/CEE: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3  
Xn,C; R20/21/22-34



3.2/1B Skin Corr. 1B H314



3.1/4/Oral Acute Tox. 4 H302



3.1/4/Dermal Acute Tox. 4 H312



3.1/4/Inhal Acute Tox. 4 H332

### 4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

## 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

## 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

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Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

calcium chloride - Index: 017-013-00-2, CAS: 10043-52-4, EC No: 233-140-8

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

2-aminoethanol; ethanolamine - Index: 603-030-00-8, CAS: 141-43-5, EC No: 205-483-3

VLE 8h: ppm 1 mg/m<sup>3</sup> 2,5 ,Skin

VLE short: ppm 3 mg/m<sup>3</sup> 7,6 ,Skin

TLV TWA: ppm 3

TLV STEL: ppm 6

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2 or CEN/FFP-3.

Thermal Hazards:

None

Environmental exposure controls:

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour: Clear liquid

Odour: not significant

Odour threshold: Not Relevant

pH: 5,5

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Solid/gas flammability: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: N.A.

Flash point: Not Relevant

Evaporation rate: Not Relevant

Vapour pressure: N.A.

Relative density: 1,27 +/- 0.05

Solubility in water: Completely miscible

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Lipid solubility:Not Relevant  
Partition coefficient (n-octanol/water):Not Relevant  
Auto-ignition temperature:Not Relevant  
Decomposition temperature:Not Relevant  
Viscosity:Not Relevant  
Explosive properties:Not Relevant  
Oxidizing properties:Not Relevant

9.2. Other information

Miscibility:Not Relevant  
Fat Solubility:Not Relevant  
Conductivity:Not Relevant  
Substance Groups relevant propertiesNot Relevant

## 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

## 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

calcium chloride - Index: 017-013-00-2, CAS: 10043-52-4, EC No: 233-140-8

LD50 (RAT) ORAL: 1000 MG/KG

2-aminoethanol; ethanolamine - Index: 603-030-00-8, CAS: 141-43-5, EC No: 205-483-3

LD50 (RAT) ORAL: 2100 MG/KG

LD50 (RABBIT) SKIN: 1000 MG/KG

## 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

12.2. Persistence and degradability

None

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

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None

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

### 14.2. UN proper shipping name

N.A.

### 14.3. Transport hazard class(es)

N.A.

### 14.4. Packing Group

N.A.

### 14.5 Environmental hazards

N.A.

### 14.6. Special Precautions for User

N.A.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

## 15. REGULATORY INFORMATION

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

### 15.2. Chemical Safety Assessment

No

## 16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

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Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS:Chemical Abstracts Service (division of the American Chemical Society).

CLP:Classification, Labeling, Packaging.

DNEL:Derived No Effect Level.

EINECS:European Inventory of Existing Commercial Chemical Substances.

GefStoffVO:Ordinance on Hazardous Substances, Germany.

GHS:Globally Harmonized System of Classification and Labeling of Chemicals.

IATA:International Air Transport Association.

IATA-DGR:Dangerous Goods Regulation by the International Air Transport Association (IATA).

ICAO:International Civil Aviation Organization.

ICAO-TI:Technical Instructions by the International Civil Aviation Organization (ICAO).

IMDG:International Maritime Code for Dangerous Goods.

INCI:International Nomenclature of Cosmetic Ingredients.

KSt:Explosion coefficient.

LC50:Lethal concentration, for 50 percent of test population.

LD50:Lethal dose, for 50 percent of test population.

PNEC:Predicted No Effect Concentration.

RID:Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL:Short Term Exposure limit.

STOT:Specific Target Organ Toxicity.

TLV:Threshold Limiting Value.

TWATLV:Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

WGK:German Water Hazard Class.

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