

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**

**1.1. Product identifier:** Surety® MA

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

Relevant uses: Crops biostimulants, fertilizer, nutrition, plant and crop protection, and organic inputs.

Uses advised against: No advised uses have been detected, provided that the indications contemplated in the MSDS are fulfilled.

**1.3. Details of the supplier of the safety data sheet:**

ALGAENERGY, N.A. Inc.  
2852 Willamette Street #411  
Eugene, OR 97405

1-877-254-2009  
[info@algaenergy.es](mailto:info@algaenergy.es)

**1.4. Emergency telephone number:**

CHEMTREC: 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture:**

The product has not been classified as a dangerous product in accordance with **CLP Regulation Regalement (EC) N° 1272/2008**.

**2.2. Label elements:**

**Precautionary statements:**

P102 - Keep out of reach of children.

P270 - Do not eat, drink or smoke during its usage.

**Heavy metals classification (RD 506/2013):** A Class

**2.3. Other hazards:** Product fails to meet PBT/vPvB criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substance:** In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	concentration
CAS: 100209-45-8	UVCB (organic origin)	≥ 40 % (w/w)
CE: 309-353-8		
REACH: 01-2119980073-39-XXXX		

**3.2. Mixture:** Non-applicable.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures:**

Seek immediate medical assistance showing the MSDS of this product.

By inhalation: If the affected person is still breathing, move the person outdoors to fresh air. If not breathing give artificial respiration. Seek medical assistance.

By skin contact: Wash off with soap and water.

By eye contact: Flush eyes with water as a precaution.

By ingestion/aspiration: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical assistance

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media:**

Suitable extinguishing media: In the case of inflammation, use water spray, alcohol-resistant foam, dry chemical powder (ABC powder) or carbon dioxide.

Improper extinguishing media: Direct water stream.

**5.2. Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created. They can become highly toxic and, consequently, can present a serious health risk.

**5.3. Advice for firefighters:**

Depending on the magnitude of the fire, it may be necessary to use full protective clothing and individual respiratory equipment

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**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures:**

Emergency personnel and personnel employed must comply with the health and safety policies of the centre, as well as safety recommendations, wearing protective gloves, safety glasses, appropriate clothing and good hygiene practices. Avoid dust formation.

**6.2. Environmental precautions:**

Do not let product enter drainage systems.

**6.3. Methods and material for containment and cleaning up:**

Absorb spillage with inert materials. Keep in suitable closed containers for disposal. For waste, see section 13.

**6.4. Reference to other sections:**

See section 8 (personnel protection recommendations) and see section 13 (waste disposal).

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**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling:**

Comply with safety recommendations and practices in accordance with good industrial and personal hygiene practices, using gloves, glasses and appropriate protective clothing.

Provide adequate ventilation in places where dust forms.

There are no specific recommendations if the product is used correctly.

**7.2. Conditions for safe storage, including any incompatibilities:**

Store the product in its original container, properly closed, in cool, well-ventilated and

adequate places to keep intact the original characteristics of the product. Keep out of reach of children and away from food, drinks and feed.

### **7.3. Specific end use(s):**

Crops biostimulants, fertilizer, nutrition, plant and crop protection, and organic inputs.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters:**

It does not contain substances with occupational exposure limit values.

### **8.2. Exposure controls:**

A.- General security and hygiene measures in the work place:

Handle in accordance with good industrial hygiene and safety practices. Use of basic personal protective equipment is recommended as a prevention measure, with the corresponding CE marking according to R.D. 1407/1992 and subsequent modifications.

B.- Respiratory protection:

No respiratory protection is required.

C.- Specific protection for the hands:

For prolonged or repeated contact, use protective gloves (EN ISO 374-1:2016).

D.- Ocular and facial protection:

As a precaution, safety glasses can be used (EN 166:2001).

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties:**

Physical state at 20 °C:	Liquid
Appearance:	Liquid
Colour:	Brown
Odour:	Characteristic
pH:	3.6
Odour threshold:	No data available
Melting point:	241,2 °C
Boiling point:	Not relevant *
Vapour pressure:	Not relevant *
Tension superficial:	Not relevant *
Density a 25 °C:	1,1 g/ml
Solubility in water at 20 °C:	Miscible in water
Partition coefficient n-octanol/water:	Not relevant*
Decomposition temperature:	105-110 °C
Autoignition temperature:	Not relevant*
Viscosity:	Not relevant*
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Flammable properties:	Not flammable

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\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2. Chemical stability:**

Chemically stable under the conditions of storage, handling and use. See section 7.

**10.3. Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected. See section 7.

**10.4. Conditions to avoid:**

Under the indicated conditions of storage, handling and use, not known. See section 7.

**10.5. Incompatible materials:**

Strong oxidizing agents.

**10.6. Hazardous decomposition products:**

Under the indicated conditions of storage, handling and use, not acknowledged. See section 7.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects:**

A.- Acute toxicity: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

LD50 oral > 2000 mg/kg (rat test). No adverse data are observed.

LD50 inhalation: Not applicable. No particles of an inhalable size are presented.

LD50 dermal: Not applicable. Due to the nature of the product.

B.- Corrosion or skin irritation: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

Product not irritating (OECD 404, rabbit test).

C.- Contact with the skin and the eyes (acute effect): No information available (no studies available).  
In case of eye contact, flush eyes with plenty of water as a precaution.

D.- Respiratory and skin sensitisation: No information available (no studies available).

E.- Mutagenicity: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

F.- Carcinogenicity: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

G.- Toxicity for reproduction: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

H.- Specific target organ toxicity (STOT):

Single exposure: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

Repeated exposure: Not classified (in view of the nature of the product and the available data, the classification criteria are not met). Level without observable adverse effects > 1000 mg/Kg body weight per day (rat test).

J.- Aspiration hazard: Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

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## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity:** Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

**12.2. Persistence and degradability:** Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

**12.3. Bioaccumulative potential:** Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

**12.4. Mobility in soil:** Not classified (in view of the nature of the product and the available data, the classification criteria are not met).

**12.5. Results of PBT and vPvB assessment:** Product fails to meet PBT/vPvB criteria.

**12.6. Other adverse effects:** No additional information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods:**

Dispose of the content and its solutions as an unused product (disposal) in accordance with the requirements of all legal environmental texts at local, national, and EU member states level.

Dispose of the container (recycling) in accordance with the requirements of all legal environmental texts at local, national, and EU member states level.

Use empty container collection companies and duly authorized waste managers, if applicable. It is recommended that a responsible manager for waste disposal carries out the classification.

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**SECTION 14: TRANSPORT INFORMATION****14.1. Transport by land (ADR/RID):**

Non-applicable. Non-dangerous goods.

**14.2. Transport by sea (IMDG):**

Non-applicable. Non-dangerous goods.

**14.3. Transport by inland waterways (AND(R)):**

Non-applicable. Non-dangerous goods.

**14.4. Transport by air (ICAO/IATA):**

Non-applicable. Non-dangerous goods.

**14.5. Dangerous for the environment:**

Non-applicable. Non-dangerous goods.

**14.6. Special precautions for user:**

Non-applicable. Non-dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:**

Non-applicable. Non-dangerous goods.

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**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH):

Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date:

Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer:

Non-applicable

Article 95, REGULATION (EU) No 528/2012:

Non-applicable

Restrictions on the marketing and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc.):

Non-applicable

Other legislation:

REGULATION (EC) No 2003/2003 relating to fertilisers.

Spanish legal text: Real Decreto 506/2013, de 28 de junio, concerning fertilizing products and its amendments.

**15.2. Chemical safety assessment:**

The chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****16.1. Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 2015/830).

**16.2. Modifications related to the previous Safety Data Sheet, which concerns the ways of managing risks:**

Regulation (EC) 1907/2006 (REACH): update of all sections.

**16.3. Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**16.4. Abbreviations and acronyms:**

DL50: Lethal Dose 50.

ADR: European agreement concerning the international carriage of dangerous goods by road.

RID: Regulation on the international transport of dangerous goods by train.

IMDG: International maritime dangerous goods code.

ICAO: International Civil Aviation Organisation.

IATA: International Air Transport Association.

**16.5. Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**16.6. Notice to reader:**

The information provided in this Safety Data Sheet, is the most correct that we have at the date of its publication and is based on sources, technical knowledge and legislation in force at European and state level, not being able to guarantee its accuracy.

The information and recommendations contained therein are intended as a guide for safety in handling, use, processing, storage, transport, disposal and discharge, and should not be considered as a guarantee or quality specification. The methodology and working conditions of the users of this product are beyond our knowledge and control, being the ultimate responsibility of the user to take the necessary measures to adapt to the legislative requirements regarding handling, storage, use and disposal of chemical products. The information in this safety data sheet only refers to this product, which should not be used for others purposes not specified.

**Surety® is a registered trademark of ALGAENERGY, N.A. Inc.**

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