# SAFETY DATA SHEET

## **BIOSTIMULUS**

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



SDS #: 10043-1-A

Revision Date: 2018-01-02

Format: EU Version 1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Code 10043-1-A

Product name BIOSTIMULUS

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

Recommended Use: A biostimulant, boosting natural processes of metabolism in plants

Restrictions on use Use as recommended by the label

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> CHEMINOVA AGRO DE ARGENTINA S.A.

Aldecoa N° 1277 - (B1868DTO) Avellaneda

Buenos Aires - Argentina Tel: +5411- 4228-7047

For further information, please contact:

**Contact Point** Tel: +5411- 4228-7047

1.4. Emergency telephone number

Emergency telephone Tel: +5411- 4228-7047

# Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Hazard symbol not required.

EUH208: Contains hexamine. May produce an allergic reaction.

# 2.2. Label elements

**Hazard pictograms** 

Hazard symbol not required.

**Hazard Statements** 

EUH208: Contains hexamine. May produce an allergic reaction.

**Precautionary Statements** 

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P332 + P313 - If skin irritation occurs: Get medical advice/attention

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#### 2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

# **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

The product is a mixture, not a substance.

# 3.2 Mixture containing the following hazardous ingredients:

Chemical Name	EC-No	CAS-No	G-No Weight GHS Classification percent		REACH registration number
N-ACETYLTHIAZOLID INE-4-CARBOXYLIC ACID	225-713-6	5025-82-1	1-10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	No data available
Sodium carbonate	207-838-8	497-19-8	1-10	Eye Irrit. 2 (H319)	01-2119485498-19- XXXX

#### **Additional Information**

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

Contains hexamine (CAS number 100-97-0) at a level below the concentration limit for classification of the mixture as sensitising.

# **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

Eye contact Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a poison

control centre or doctor for treatment advice.

**Skin Contact** Wash off immediately with soap and plenty of water. If symptoms persist, call a doctor.

**Inhalation** Remove person from exposure ensuring one's own safety while doing so.

Ingestion Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately

for treatment advice.

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

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

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

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

# **Section 5: FIRE FIGHTING MEASURES**

## 5.1. Extinguishing media

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# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, water spray or regular foam. Cool containers / tanks with water spray.

#### Unsuitable extinguishing media

No information available

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

Toxic fumes may be released in fire situations.

Hazardous combustion products Carbon oxides, Sulphur oxides, Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

# Section 6: ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. In the case of large spills (1 ton or more), alert the appropriate authorities.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

# For emergency responders

Use personal protection recommended in Section 8.

## 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

# 6.3. Methods and material for containment and cleaning up

Methods for containment Surface drains within close vicinity of the spill should be covered. Dike to confine spill and

absorb with non-combustible absorbent such as clay, sand or soil.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to

local/national regulations (see Section 13).

#### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

#### Handling

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage

Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

Packageing material Must only be kept in original packaging.

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# 7.3. Specific end use(s)

# Specific use(s)

No data available.

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Derived No Effect Level (DNEL)**No information available.

**Predicted No Effect Concentration** 

No information available.

(PNEC)

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection** Safety glasses with side-shields. Provide emergency on-site eyewash.

Hand protection Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of

materials such as nitrile or neoprene.

Skin and body protection Impervious clothing.

**Respiratory Protection** Not required under normal use.

Environmental exposure controls Refer to specific Member State legislation for requirements under Community

environmental legislation.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Liquid suspension
Odour Odourless
Colour Yellow

Odour threshold No information available

**oH** 6.0 - 7.0

Melting point/freezing point No information available

Boiling point/boiling range > 100

Flash point
Evaporation Rate
Flammability (solid, gas)
Flammability Limit in Air

No information available
No information available
No information available

Upper flammability limit:
Lower flammability limit:
Vapour pressure
Vapour density

No information available
No information available
15.92 mm Hg at 20°C
No information available

Specific gravity ~1.03

Water solubility Soluble in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic

No information available

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**Explosive properties**No information available **Oxidising properties**Non-oxidizing (by EC criteria)

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Density
Bulk Density
No information available

# **Section 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

None under normal use conditions

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### **Explosion data**

**Sensitivity to Mechanical Impact** No information available. **Sensitivity to Static Discharge** No information available.

## 10.3. Possibility of hazardous reactions

#### Hazardous polymerisation

Hazardous polymerisation does not occur.

## **Hazardous reactions**

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

# 10.4. Conditions to avoid

Heat, Humid air, Extremes of temperature and direct sunlight.

## 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidising agents. Metals.

#### 10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions. See Section 5 for more information.

# Section 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

#### **Acute toxicity**

# **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**LD50 Oral** 9620 mg/kg (rat) **LD50 Dermal** 9620 mg/kg (rat)

Chemical Name LD50 Oral		LD50 Dermal	Inhalation LC50	
Sodium carbonate	2800 mg/kg (rat)	>2000 mg/kg (rat)		

Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available.

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SensitisationNo information availableMutagenicityNo information available.CarcinogenicityNo information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Symptoms Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

There is no data available for this product.

Sodium carbonate (497-19-8)							
Active Ingredient(s)	Active Ingredient(s) Duration		VALUE	UNITS			
Sodium Carbonate	96 h LC50	Bluegill sunfish	300	mg/l			
Sodium Carbonate	48 h EC50	Ceriodaphnia	200-227	mg/l			

# 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

No information available.

# 12.4. Mobility in soil

## Mobility in soil

No information available.

#### **Mobility**

Readily absorbed to soil.

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

This product is not identified as a PBT/vPvB substance.

# 12.6. Other adverse effects

No information available

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# Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste from residues / unused

products

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not

discharge to sewer systems.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

**OTHER INFORMATION** NOTE: The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal.

# **Section 14: TRANSPORT INFORMATION**

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Packing groupNot regulated14.5 Marine pollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to Este producto no se transporta en contenedores a granel.

Annex II of MARPOL 73/78 and the

**IBC Code** 

RID

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard classNot regulated14.4Packing groupNot regulated14.5Environmental hazardNot Applicable

14.6 Special Provisions None

ADR/RID

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Packing groupNot regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions None

ICAO/IATA

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Packing groupNot regulated14.5 Environmental hazardNot Applicable14.6 Special ProvisionsNone

# **Section 15: REGULATORY INFORMATION**

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

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# **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not Applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

# **International Inventories**

Chemical Name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
N-ACETYLTHIAZOLIDINE- 4-CARBOXYLIC ACID 5025-82-1	Х	Х	Х					
Sodium carbonate 497-19-8	Х	Х	Х	Х	Х	X	Х	Х

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

# **Section 16: OTHER INFORMATION**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

# Full text of R-phrases referred to under sections 2 and 3

Not applicable

# Full text of H-Statements referred to under sections 2 and 3

EUH208 - May produce an allergic reaction

H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Legend

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

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

**DNEL:** Derived No Effect Level (DNEL)

**EINECS**: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50 (lethal concentration)

LD50: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

SVHC: Substances of Very High SVHC: Substances of Very High Concern for Authorisation:

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**Concern for Authorisation:** 

**TWA:** time weighted average

vPvB: very Persistent and very Bioaccumulative

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Reason for revision: Format Change.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By

**FMC** Corporation

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**End of Safety Data Sheet**