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Safety data sheet

according to 1907/2006/EC (REACH)

Printing date 12.01.2018

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

- 1.1 Product identifier • Trade name: BIOR
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available. • **Application of the substance / the mixture** Fertiliser
- **1.3 Details of the supplier of the safety data sheet** • **Manufacturer/Supplier:** SARION S.r.I. Via C. Armellini, 22 04100 Latina Tel +39 392 93 64 476 www.sarion-ag.com

· Further information obtainable from: SARION S.r.I. - Email: regulatory@sarion.com

• **1.4 Emergency telephone number:** UNITED KINGDOM National Poisons Information Service (NPIS) - Tel: +44 844 8920111

SARION S.r.I. - Technical support: Tel: +39 392 9364476 (Monday-Friday: 8.00AM-1.00PM / 2.00-5.00 PM)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
 - Results of PBT and vPvB assessment
 - **PBT:** Not applicable.
 - · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Description: Mixture: consisting of the following components.

· Dangerous components:			
CAS: 77-92-9 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42-0014		Eye Irrit. 2, H319	2.5-5%
· Additional information: For the	wording of the listed hazard phrases refer to see	tion 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Generally the product does not irritate the skin.

If skin irritation continues, consult a doctor.

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• After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

• **5.3 Advice for firefighters** • **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

 • 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
 • Information about fire - and explosion protection: No special measures required.

The product is not flammable.

- 7.2 Conditions for safe storage, including any incompatibilities • Storage:
 - · Requirements to be met by storerooms and receptacles: Store in a cool location.
 - · Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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· 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· PNECs	
CAS: 77-92-9 citric acid	
PNEC / aqua	0.44 mg/l (freshwater)
	0.044 mg/l (marine water)
PNEC / sediment	3.46 mg/kg dw (freshwater)
	34.6 mg/kg dw (marine water)
PNEC / soil	33.1 mg/kg dw
PNEC / STP	>1,000 mg/l (sewage treatment plant)
A	armation. The lists valid during the melling ware used as head

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

· Respiratory protection: Not required.

• Protection of hands:

Preventive skin protection by use of gloves is recommended.



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Goggles recommended during refilling



9.1 Information on basic physical and chemical properties · General Information		
· Appearance:		
Form:	Fluid	
· Colour:	Dark brown	
· Odour:	Characteristic	
Odour threshold:	Not determined.	
· pH-value at 20 °C:	4.77	





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 Change in condition Melting point/freezing point: Initial boiling point and boiling r 	Undetermined. ange: >100 °C	
· Flash point:	Not applicable.	
[.] Flammability (solid, gas):	Not applicable.	
· Ignition temperature:		
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.	
Vapour pressure:	Not determined.	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.24 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
· Partition coefficient: n-octanol/wa	ter: Not determined.	
· Viscosity: · Dynamic: · Kinematic:	Not determined. Not determined.	
· Solvent content: · VOC (EC)	0.00 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 77-92-9 citric acid

Oral LD50 5,400 mg/kg (mouse)

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Dermal LD50 >2,000 mg/kg (rat)

- · Primary irritant effect:
 - Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eve damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 77-92-9 citric acid

EC50 / 24h 1,535 mg/l (crustacea - Daphnia magna)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
 - General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
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· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anne Marpol and the IBC Code 	ex II of Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)

Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)

Directive 2012/18/EU (Seveso)
 Named dangerous substances - ANNEX I None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H319 Causes serious eye irritation.

Abbreviations and acronyms: REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Classification, Labelling and Packaging ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways TLV: Threshold Limit Value TLV-TWA: Threshold Limit Value - Time Weighted Average TLV-STEL: Threshold Limit Value - Short Term Exposure Limit IOELV: Indicative Occupational Exposure Limit Value BEI: Biological Exposure Indices LD50: Lethal Dose, 50 percent LC50: Lethal Concentration, in air, 50 percent LC50: Lethal Concentration, 50 percent EC50: Effective Concentration, 50 percent ErC50: Effective Concentration, 50 percent, reduction of growth rate Kow: Octanol-Water partition coefficient BCF: BioConcentration Factor PNEC: Predicted No-Effect Concentration IREACH1 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative WGK: Wassergefährdungsklasse - Water hazard class, Germany Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

