

according to Regulation (EU) 2015/830

Date of issue: 11/07/2017 Version: 1.0

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Hyberol
Product group	: Trade product
Other means of identification	 Solution of boron polyol chelates and complexes and zinc (II) polyaminocarboxylic acid chelates appearing on the list of admitted chelating agents and chelated trace-elements (EC regulation nr. 2003/2003).
1.2. Relevant identified uses of	the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	e safety data sheet
BMS Micro-Nutrients NV Rijksweg 32 2880 Bornem - Belgium T +32/3 899 10 10 - F +32/3 899 40 44 info@chelal.com - <u>www.chelal.com</u>	
1.4. Emergency telephone numl	per
No additional information available	
SECTION 2: Hazards identific	ation
2.1. Classification of the substa	nce or mixture
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4.2. Most important symptoms and effects, both acute and delayed

No additional information available

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4.3. Indication of any imm	nediate medical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting	measures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arisi	ng from the substance or mixture
Hazardous decomposition production fire	cts in case of : Toxic fumes may be released.
5.3. Advice for firefighters	\$
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental r	elease measures
6.1. Personal precautions	, protective equipment and emergency procedures
6.1.1. For non-emergency p	ersonnel
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency respo	nders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental preca	utions
Avoid release to the environment	L
6.3. Methods and materia	I for containment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other se	octions
For further information refer to se	ection 13.
SECTION 7: Handling an	d storage
7.1. Precautions for safe	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Handling temperature	: 5 - 30 °C
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe s	torage, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: 5 - 30 °C
7.3. Specific end use(s)	
No additional information availab	le
SECTION 8: Exposure co	ontrols/personal protection
8.1. Control parameters	
Hyberol	
Belgium	boron (inhalable): 2; 6 mg/m ³
Germany	zinc and inorganic compounds (long term inhalable & respirable fraction; short term inhalable & respirable fraction): 2 & 0,1; 4 & 0,4 mg/m ³ boron (inhalable): 0.5; 1 mg/m ³
Casia	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Spain

boron (inhalable): 2; 6 mg/m³

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Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: dark brown.
Odour	: odourless.
Odour threshold	: No data available
рН	: 8 - 8.5 (1% solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1.22 kg/l
Solubility	: complete.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	:
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	у
10.1. Reactivity	
The product is non-reactive under normal cond	itions of use, storage and transport.
10.2. Chemical stability	

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 8 - 8.5 (1% solution)
Serious eye damage/irritation	 Provide the constant of the const
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	
12.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse
Ecology - general	effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ne
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	
14.1. UN number UN-No. (ADR)	: Not applicable
UN-NO. (IMDG)	: Not applicable
UN-NO. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable

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IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN Transport hazard class(es) (ADN)	: Not applicable
	. Net evelopeda
Transport hazard class(es) (RID)	: Not applicable
14.4.Packing groupPacking group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not applicable	
- Transport by sea	
Not applicable	
- Air transport	
Not applicable	
- Inland waterway transport Not applicable	
- Rail transport	
Not applicable	
14.7. Transport in bulk according to Ann	ex II of MARPOL and the IBC Code
Not applicable	
SECTION 15: Regulatory informatio	
	egulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
Contains no REACH substances with Annex XV	
Contains no substance on the REACH candidat	
Contains no REACH Annex XIV substances	
15.1.2. National regulations	
Germany	
VwVwS Annex reference	: Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS,

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5 5 ()	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product