

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

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

- **1.1 Product identifier**
- **Trade name:** *NUTRILEAF HYBRID BORON MOLYBDENUM*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:** *Fertilizer.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
*GLOBAL AGRO SOLUTION Ltd.
11B Nikolaj G. Stoletov Blvd.
1309 Sofia
Bulgaria*
- **Further information obtainable from:** *Phone: +359 883314508; +359 884739774*
- **e-mail address of competent person responsible for the SDS:** *office@globalagrosolution.com*
- **1.4 Emergency telephone number**
*Bulgarian National Toxicology Information Center
Hospital for Medical Treatment and Emergency Medicine "N.I.Pirogov" Sofia
Phone for emergency / fax: +359 2 9154 233
E-mail: poison_centre@mail.orbitel.bg*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**



GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms:**



GHS08

- **Signal word:** *Danger*
- **Hazard-determining components of labelling:**
boric acid
- **Hazard statements:**
H360FD May damage fertility. May damage the unborn child.
- **Precautionary statements:**
 - P201 Obtain special instructions before use.*
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.*
 - P308+P313 IF exposed or concerned: Get medical advice/attention.*
 - P405 Store locked up.*
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 2)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: NUTRILEAF HYBRID BORON MOLYBDENUM

(Contd. of page 1)

· **Additional information:**

Restricted to professional users.

· **Labelling of packages where the contents do not exceed 125 ml**· **Hazard pictograms**

GHS08

· **Signal word** Danger· **Hazard-determining components of labelling:**

boric acid

· **Hazard statements**

H360FD May damage fertility. May damage the unborn child.

· **Precautionary statements**

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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 of substances listed below with nonhazardous additions.· **Dangerous components**

CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25-XXXX	boric acid	≥10-<25%
	⚠ Repr. 1B, H360FD	
CAS: 13106-76-8 EINECS: 236-031-3	ammonium molybdate(VI)	≥1-<2.5%
	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

· **Non-dangerous components**

CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	≥25-<50%
CAS: 56-81-5 EINECS: 200-289-5	glycerol	≥25-<50%
CAS: 657-27-2 EINECS: 211-519-9	lysine hydrochloride	≥5-<10%

· **SVHC**

10043-35-3	boric acid
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(Contd. on page 3)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

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Revision: 01.11.2023

Trade name: **NUTRILEAF HYBRID BORON MOLYBDENUM**

(Contd. of page 2)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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.
- **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).
Dispose contaminated material as waste according to section 13.
- **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** Open and handle receptacle with care.
- **Information about fire and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

EU

(Contd. on page 4)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: **NUTRILEAF HYBRID BORON MOLYBDENUM**

(Contd. of page 3)

SECTION 8: Exposure controls / personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace

10043-35-3 boric acid

GS (Bulgaria)	Long-term value: 5 mg/m ³ като B
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13106-76-8 ammonium molybdate(VI)

GS (Bulgaria)	Long-term value: 5 mg/m ³ като Mo
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· DNELs:

10043-35-3 boric acid

Oral	DNEL General population	0.98 mg/kg bw/day (Systemic effects) (Long term exposure)
		0.98 mg/kg bw/day (Systemic effects) (Acute / Short term exposure)
Dermal	DNEL General population	196 mg/kg bw/day (Systemic effects) (Long term exposure)
	DNEL Workers	392 mg/kg bw/day (Systemic effects) (Long term exposure)
Inhalative	DNEL Workers	8.3 mg/m ³ (Systemic effects) (Long term exposure)
	DNEL General population	4.15 mg/m ³ (Systemic effects) (Long term exposure)

· PNECs:

10043-35-3 boric acid

PNEC aqua	2.9 mg/l (freshwater)
	2.9 mg/l (marine water)
PNEC soil	5.7 mg/kg
PNEC sewage treatment plant (STP)	10 mg/l

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

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

Protective gloves according to EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

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 mixture 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.

(Contd. on page 5)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: NUTRILEAF HYBRID BORON MOLYBDENUM

(Contd. of page 4)

PVC gloves

Natural rubber, NR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

· **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.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3).

· **Eye/face protection** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Physical state**

Fluid

· **Colour:**

Dark brown

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point / Melting range:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100 °C (7732-18-5 water, distilled, conductivity or of similar purity)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **SADT:**· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

7.5-9

· **Viscosity**· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

· **Solubility**· **Water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure at 20 °C:**

23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)

· **Density and/or relative density**· **Density at 20 °C:**1.4 g/cm³· **Relative density:**

Not determined.

· **Vapour density:**

Not determined.

· **9.2 Other information:**· **Appearance:**· **Form:**

Liquid

· **Important information on protection of health and environment, and on safety**· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

Forms very sensitive explosive metallic compounds.

(Contd. on page 6)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: **NUTRILEAF HYBRID BORON MOLYBDENUM**

(Contd. of page 5)

· Change in condition	
· Evaporation rate:	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye 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.
- **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** May damage fertility. May damage the unborn child.
- **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.

(Contd. on page 7)

EU

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: **NUTRILEAF HYBRID BORON MOLYBDENUM**

(Contd. of page 6)

· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**· **Acquatic toxicity** No further relevant information available.· **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.· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**· **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.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**· **ADR, IMDG, IATA**

Void

· **14.2 UN proper shipping name**· **ADR, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG, IATA**· **Class**

Void

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards**

Not applicable.

(Contd. on page 8)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

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Version number 1

Revision: 01.11.2023

Trade name: NUTRILEAF HYBRID BORON MOLYBDENUM

(Contd. of page 7)

- | | |
|---|-----------------|
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · 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 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
 Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

- **Directive 2012/18/EU (Seveso III)**
 · **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 · **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 30

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations:**

- **Other regulations, limitations and prohibitive regulations:**

National laws and regulations of the relevant Member State which implement the following Community provisions shall be mentioned:

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

COUNCIL DIRECTIVE 94/33/EC of 22 June 1994 on the protection of young people at work

COUNCIL DIRECTIVE 92/85/EEC of 19 October 1992 on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding (tenth individual Directive within the meaning of Article 16 (1) of Directive

(Contd. on page 9)

Safety data sheet

According to Regulation 1907/2006/EC, Article 31 and Regulation 1272/2008/EC

Printing date 01.11.2023

Version number 1

Revision: 01.11.2023

Trade name: NUTRILEAF HYBRID BORON MOLYBDENUM

(Contd. of page 8)

89/391/EEC)

Substances of very high concern (SVHC) according to REACH, Article 57:

10043-35-3	boric acid
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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:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360FD May damage fertility. May damage the unborn child.

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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