

## Midori Green Advance Agarose Tablets

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830  
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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Name: Midori Green Advance Agarose Tablets  
Cat. No.: AG11  
EC Substance name: not available  
CAS Number: not available  
EC Number: not available  
REACH Reference Number: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: For laboratory and manufacturing use only.  
Uses advised against: Unknown.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: NIPPON Genetics EUROPE GmbH  
Binsfelder Straße 77  
D- 52351 Düren, Germany  
Phone.: +49 (0) 2421 / 554960  
Fax: +49 (0) 2421 / 5549611  
E-Mail: [info@nippongenetics.de](mailto:info@nippongenetics.de)  
Internet: [www.nippongenetics.eu](http://www.nippongenetics.eu)

Information on further details at: Technical Support  
Phone: +49 (0) 2421 / 554960  
Fax: +49 (0) 2421 / 5549611  
E-Mail: [sdb@nippongenetics.de](mailto:sdb@nippongenetics.de)

#### 1.4 Emergency telephone no:

Emergency information: Phone: +49 (0) 2421 / 554960  
Within the business hours: Monday to Friday, 8 a.m. to 5 p.m.  
Poison Center in Bonn (Germany) 0228/19240

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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to the Regulation (EC) No. 1272/2008 (CLP);

Signal word: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008  
H-Statements: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

##### Classification according to EU directives 67/548/EEC or 1999/45/EC;

Not a hazardous substance or mixture according to EC Directives 67/548 / EEC (DSD) and 1999/45 / EC (DPD)

#### 2.2 Labelling elements

##### Labelling according to the Regulation (EC) No. 1272/2008 (CLP);

##### Substance on the label:

Pictograms: none

Signal word: none

H statements: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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| <b>P statements:</b> | P280             | Wear protective gloves/protective clothing/eye protection.   |
|                      | P301+P312        | IF SWALLOWED: call poison center or doctor if you feel unwell  |
|                      | P302 + P352      | IF ON SKIN: Wash with plenty of water.   |
|                      | P305+P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|                      | P308 + P313      | If exposed or concerned. Get medical advice / attention.   |

Supplemental Hazard Statements: None

### 2.3 Other hazards:

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

Physical-chemical hazardous effects are unknown. On complains and symptoms as well as to harmful effects no data are available.

### 2.4 Additional hazards for humans and the environment:

|   |                   |
|---|-------------------|
| 2.4.1 Possible hazardous physicochemical effects:               | Unknown           |
| 2.4.2 Possible adverse effects on humans and possible symptoms: | No data available |
| 2.4.3 Possible harmful effects:                                 | No data available |

## 3. Composition / information on ingredients:

3.1 **Substances:** Powder solution  
**Product name:** Midori Green Advance Agarose Tables

### 3.2 Components:

#### Chemical characterization:

Powder solution with inorganic and organic components.


| Chemical name                   | EC No.    | CAS No.   | Content | Classification according to 67/548/EEC and 1999/45/EC | Classification according to regulation (EC)NO 1272/2008 |
|---------------------------------|-----------|-----------|---------|---|---|
| Midori Green Advance DNA Stain* | ----      | ----      | < 1%    | ----  | ----  |
| Agarose                         | 232-731-8 | 9012-36-6 | >99%    | ----  | ----  |

\* No components need to be disclosed according to the applicable regulations.

## 4. First aid measures

### 4.1 Description of the first aid measures:

#### 4.1.1 General information:

 If complains persist consult a physician. Remove contaminated cloths and shoes, thoroughly clean before re-use. If complains and symptoms occur seek medical advice.

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### 4.1.2 Inhalation:

Remove the affected person to fresh air, bring to rest position, keep warm. If complains and symptoms occur seek medical advice.

### 4.1.3 Skin contact:

At contact with the skin immediately wash with much water. If complains and symptoms occur seek medical advice.

### 4.1.4 Eyes contact:



Thoroughly wash the eyes on spread lids with flowing fresh water for 15 minutes, previously remove contact lenses if possible. Provide ophthalmological treatment.

### 4.1.5 Ingestion:

Don't induce vomiting. Let rinse the mouth, let spit of the liquid and let drink copious amounts of water. If complains and symptoms occur seek medical advice.

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

Not relevant

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

No data available.

## 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:



This product is not flammable. Use extinguishing agent suitable for type of surrounding fire: water spray, dry chemical or carbon dioxide, fire extinguishing foam, extinguishing powder.

#### Not suitable extinguishing media for safety reasons:

No data available

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



Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products: Carbon oxides.

### 5.3 Advice for fire fighters:



Use a self-contained breathing apparatus (SCBA) at poor ventilation and in closed rooms. Wear protection cloth.

Adapt the extinguishing media and fire-fighting measures to the environment.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing, wear appropriate protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions:

Do not allow to enter sewers / surface waters / ground water. Remove fire residues and contaminated aqueous wastes in suitable containers and dispose of them in a controlled manner.

### 6.3 Methods and material for containment and cleaning up:

Take up with liquid-binding agents, e.g. universal binder, treat material as described in section 13 „Disposal

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considerations". Clean contaminated surfaces with water.

### 6.4 Reference to other sections:

Refer to section 8 – personal protection and section 13 – information on disposal.

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## 7. Handling and storage

### 7.1 Precautions for safe handling:

#### 7.1.1 Information on safe use:

Avoid inhalation of aerosol, contact with eyes, skin and cloth, as well as longer or repeated exposure. Provide sufficient ventilation of the working room (local exhaust ventilation if needful). If workplace exposure limits are exceeded, wear appropriate respiratory protection.

#### 7.1.2 Information on fire and explosion protection:

See section 5.

#### 7.1.3 Handling rules:

On workplaces only keep available amounts necessary for work progress. Don't leave receptacles stand open. Avoid spilling, preferable handle with non-breakable receptacles or use suitable protection containers on transportation of breakable receptacles.

### 7.2 Conditions for safe storage considering incompatibilities:

#### 7.2.1 Technical measures and storage conditions:

Keep opened container tightly closed again and stored upright to prevent leakage. Always keep in containers of the same material as the original. Keep away from sunlight.

#### 7.2.2 Packing materials:

Packing materials must be tested for durability before use.

#### 7.2.3 Requirements for storage rooms and containers:

Storage in passages, stairs, public areas, roofs and workrooms is not permitted. Do not use food containers because of the risk of confusion. Label containers clearly and permanently. If possible, keep in the original container, keep container tightly closed.

#### 7.2.4 Further information to the storage conditions:

Recommended storage temperature 4-30°C. Protect from light.

### 7.3 Specific end uses:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## 8. Exposure controls / personal protection

### 8.1 Control parameters:

Components with workplace control parameters:

Contains no relevant quantities of substances with occupational exposure limit values that have to be monitored at the workplace according to TRGS 900.

### 8.2 Exposure controls:

Appropriate engineering controls:

Handle in accordance with Good Laboratory Practice. Wash hands before breaks and at the end of workday.

#### 8.2.1 Personal protection:

**Respiratory protection:**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards. Half masks according to EN 140 or full masks according to EN 136, with filters according



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to EN 143-P1.

### Hand protection:



Handle with suitable protective gloves. Gloves must be inspected prior to use. Damaged and worn protective gloves should be replaced immediately. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and Good Laboratory Practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Completely unsuitable are gloves made of fabric or leather. The following gloves are suitable:

For full contact:

| Material:      | Minimum layer thickness | Breakthrough time: |
|----------------|-------------------------|--------------------|
| Nitrile rubber | 0.35 mm                 | ≥ 480 min          |
| Latex          | 0.35 mm                 | ≥ 480 min          |

For splash contact:

| Material:          | Minimum layer thickness | Breakthrough time: |
|--------------------|-------------------------|--------------------|
| Natural rubber     | 0.5 mm                  | ≥ 120 min          |
| Latex              | 0.5 mm                  | ≥ 120 min          |
| Polyvinyl chloride | 0.5 mm                  | ≥ 120 min          |
| Nitrile rubber     | 0.2 mm                  | ≥ 30 min           |

### Eye protection:



Eye protection goggles with side protection (EN 166).

### Skin protection



Use clothing usual in the chemical industry. Skin protection agents are not as effective as protective gloves, so they should be preferred as much as possible. If no protective gloves can be worn, apply water-insoluble skin protection preparations to the clean skin before starting work and after every break. Before breaks and at the end of work, skin cleansing with soap and water is required. After cleansing, use a greasy skin care product.

### Body protection:



Special body protection generally not required, normal work clothes adequate.

### General protection and hygiene measure:



Do not eat, drink or smoke during working hours. Keep away from food and drink. Avoid contact with eyes and skin. Remove contaminated and soaked clothing immediately. Wash hands before breaks and after work.

#### 8.2.2 Limitation of the environmental exposure:

Avoid leaks and spills.

#### 8.2.3 Limitation of the consumer's exposure:

Avoid inhalation of vapors, mists or gases, remove sources of ignition.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |   |                               |
|---|-------------------------------|
| a) Appearance Form:                         | White, powder in tablet form. |
| b) Odour:                                   | No data available             |
| c) Odour Threshold:                         | No data available             |
| d) pH:                                      | No data available             |
| e) Melting point/freezing point:            | No data available             |
| f) Initial boiling point and boiling range: | No data available             |

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|  |                   |
|--|-------------------|
| g) Flash point:                                  | No data available |
| h) Evaporation rate:                             | No data available |
| i) Flammability (solid, gas):                    | No data available |
| j) Upper/lower flammability or explosive limits: | No data available |
| k) Vapour pressure:                              | No data available |
| l) Vapour density:                               | No data available |
| m) Relative density:                             | No data available |
| n) Water solubility:                             | Soluble in water  |
| o) Partition coefficient:                        | No data available |
| p) Auto-ignition temperature:                    | No data available |
| q) Decomposition temperature:                    | No data available |
| r) Viscosity:                                    | No data available |
| s) Explosive properties:                         | No data available |
| t) Oxidizing properties:                         | No data available |

**9.2 Other safety information:** No data available

## 10. Stability and Reactivity

### 10.1 Reactivity:

Not reactive under the intended use and storage conditions.

### 10.2 Chemical stability:

Chemically stable under the intended use and storage conditions.

### 10.3 Possibility of hazardous reactions:

Unknown under the intended use and storage conditions.

### 10.4 Conditions to avoid:

High pressure and temperatures. Stable under regular laboratory conditions. See section 7.

### 10.5 Incompatible materials:

Strong acids and bases, oxidizing and reducing agents

### 10.6 Hazardous decomposition products

No data available for other decomposition products. In the event of fire: see section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Toxicocinetics, metabolism and distribution:

No data available.

#### 11.1.2 Acute toxicity:

| Component                      | Parameter | Value            | Species      |
|--------------------------------|-----------|------------------|--------------|
| Midori Green Advance DNA stain | LD50 oral | 1000-10000 mg/kg | Kunming mice |

Other components: No data available.

#### 11.1.3 Corrosive and irritation effects:

Skin corrosion/irritation

Irritant effect

Serious eye damage/eye irritation

Irritant effect

#### 11.1.4 Sensitizing effects:

No data available.

#### 11.1.5 Aspiration hazard:

No data available.

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### 11.1.6 Carcinogenicity, mutagenicity and reproduction toxicity:

| Component                      | Parameter   | Value           | Cell culture/<br>Species               | Method  | Remarks       |
|--------------------------------|---|-----------------|--|---|---------------|
| Midori Green Advance DNA stain | <i>In vitro</i> bacterial mutation test               | 0,5-5 mg/plate  | Salmonella typhimurium TA97/98/100/102 | AMES-test   | Non-mutagenic |
| Midori Green Advance DNA stain | <i>In vivo</i> micronucleus test                      | 1000-5000 mg/kg | Kunming mice                           | The mouse bone marrow micronucleus test                               | Negative      |
| Midori Green Advance DNA stain | <i>In vitro</i> mammalian chromosomal aberration test | 31,2-5000 µg/ml | Chinese hamster ovary line.            | <i>in vitro</i> mammalian cell chromosome aberration detection system | Negative      |

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No toxicological data are available on the components of the product.

Additional toxicological information: No data available

### 11.1.7 Experience from practise:

No data available.

### 11.1.8 General remarks:

When handled appropriate and used as intended, the product does not cause harmful effects according to our experience and current information.

## 12. Ecological information

12.1 Toxicity: No data available.

12.2 Persistence and degradability:

Biological degradation: No data available.

Abiotic degradation: No data available.

12.3 Bio-accumulation potential: No data available.

12.4 Mobility in soil:

Absorption/Desorption: No data available.

12.5 Volatility: No data available.

12.6 Results of the PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.7 Other adverse effects:

At working concentration does not pose a risk to aquatic life.

General remarks:

When handled appropriate and used as intended, the product does not cause adverse effects according to our experience and current information.



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### 13. Disposal considerations

#### 13.1 Waste treatment methods:

##### 13.1.1 Product:

The allocation of a waste code number according to the European waste catalog should be done in consultation with the regional waste disposal company.

##### 13.1.2 Packaging:

Residues in packages should be removed, preferably by rinsing with water, and after complete emptying in accordance with the regulations for waste disposal. Packaging which is not completely emptied must be disposed of in the form as determined by the regional waste disposal company.

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### 14. Transport information

**14.1 UN number:** Not applicable

**14.2 UN proper shipping name:** Not applicable

In accordance with GGVSEB, ADR / RID, IMDG / GGVSee, ICAO / IATA-DGR

ADR/RID, GGVSEB

Not dangerous good during shipping

IMDG / GGVSee

Not dangerous good during shipping

ICAO / IATA-DGR

Not dangerous good during shipping

**14.3 Transport hazard class(es):** None

**Hazard label:** None

**14.4 Packaging group:** None

**Hazard number:** None

**14.5 Environmental hazards:** None

**14.6 Special precautions for user:**

No data available

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not relevant

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### 15. Regulatory information

#### 15.1 EU regulations:

**15.1.1** Chemical safety assessment according to Regulation (EC) No 1907/2006:

Substance safety assessments (CSA) according to Article 14 (1) of Regulation (EC) No 1907/2006 (REACH) for the components of the product are neither banned nor restricted

**15.1.2** Classification and labeling according to directives 67/548 / EEC (DSD) and 1999/45 / EC (DPD):

Not a hazardous substance or mixture, see section 2

**15.1.3** Classification and labeling according to Regulation (EC) No 1272/2008 (CLP):

Hazardous substance or mixture, see section 2

**15.1.4** Hazardous components which must be listed on the label.

**15.1.5** Pictograms: None

Signal word: Not hazardous to Regulation (EC) No. 1272/2008

H-Statements: Not hazardous substance or mixture according to Regulation (EC) No. 1272/2008

**15.1.6** Special labelling of certain preparations: Neither banned nor restricted:

**15.1.7** Approvals and / or restrictions of use: Neither banned nor restricted.

**15.1.8** Information on Directive 1999/13 / EC (VOC Directive) on the limitation of VOC emissions: Neither banned nor restricted.

#### 15.2 National regulations (Germany):

**15.2.1** Classification and labeling according to Hazardous Substances Ordinance (GefStoffV): Not a hazardous substance or mixture. See section 2.

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### 15.2.2 Employment restrictions:

Observe the Ordinance on Hazardous Substances (GefStoffV), the Youth Protection Act (JArbSchG) or the Ordinance on the Protection against Mothers (MuSchV).

### 15.2.3 Ordinance on Hazardous Substances (12. BImSchV): Neither banned nor restricted.

### 15.2.4 Classification according to the regulation of water pollutants (VwVwS): WGK1 slightly flammable

### 15.2.5 Technical instructions for Air (TA Luft): Neither banned nor restricted

### 15.2.6 Other regulations, restrictions and prohibitions: For this product, a chemical safety assessment was not carried out.

## 16. Other information

### 16.1 Training advice:

Accordance with applicable laws and Good Laboratory Practices.

### 16.2 Recommended use restriction:

Not recommended for consumer's use. For research use only.

### 16.3 Further information and contact points for technical information:

Department issuing data sheet:



Chemie Innovation Sicherheit  
Tel.: +49 (0) 2406 803 98 38  
Fax.: +49 (0) 3212 2471955  
Lange Hecke 1 D-52134 Herzogenrath  
<http://www.cisherzog.de>  
Contact person: Dr. Heinz Herzog  
E-Mail.: [cis@cisherzog.de](mailto:cis@cisherzog.de)

### 16.4 Data sources of the Safety Data Sheet creation:

European Chemical Substances Information System (ESIS),

Internet: <http://ecb.jrc.ec.europa.eu/esis>.

Hazardous substance information system of the trade associations (GESTIS),

Internet: <http://www.hvbg.de/d/bia/gestis/stoffdb/index.html>.

Hazardous Substances Database (HSDB) - U.S. National Library of Medicine,

Internet: <http://toxnet.nlm.nih.gov>

Hommel interactive 4.0 - Handbook of Dangerous Goods,

Internet: <http://www.springer.com/dal/home/chemistry>.

CRC Handbook of Chemistry and Physics, 88th Edition, 2007-2008,

Internet: <http://www.hbcnetbase.com>

### 16.5 Amended information and reason for amendment:

|                       |  |      |        |            |
|-----------------------|--|------|--------|------------|
| Prior version:        | Version number   | ---- | Date:  | ----       |
| Actual version:       | Versionsnummer   | 1.0  | Datum: | 17.08.2018 |
| Kind of amendent:     | New creation   |      |        |            |
| Reason for amendment: | <p>Adoption to the Annex II of the Regulation (EC) No. 1907/2006 (REACH) in the version of the Regulation (EU) 2015/830, and to the Annex I of the Regulation (EC) No. 1272/2008 (CLP).</p> <p>The safety data sheet is based on Article 32 (REACH) and is, therefore, voluntarily adopted in accordance with Annex II (EU No. 453/2010) Regulation (EC) No 1907/2006 (REACH).</p> |      |        |            |

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### 16.6 Remarks:

This information is only intended to describe the safety requirements of the product and is based on the present state of our knowledge. They do not constitute a guarantee for the characteristics of the product described in the sense of the statutory warranty regulations. Please refer to the respective product data sheets for the delivery properties. If the product mentioned in this Material Safety Data Sheet is blended, mixed or processed with other materials, the data in this Material Safety Data Sheet may not be transferred to the new material, unless otherwise specified.

**End of Safety Data Sheet**