



## MIDORI<sup>Green</sup> Advance

Cat. No.	Product	Content
MG04	MIDORI <sup>Green</sup> Advance	1 mL
MG03	MIDORI <sup>Green</sup> Advance sample	50 µL

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### 1. Identity of the substance and the manufacturer

#### 1.1. Name of the substances or preparations

MIDORI<sup>Green</sup> Advance.

#### 1.2. Recommended use of the chemical and restrictions on use

Laboratory research use only.

#### 1.3. Name and address of the manufacturer

NIPPON Genetics EUROPE GmbH

Mariaweilerstraße 28 a

52349 Düren

Germany

#### 1.4. Emergency telephone contact

+49 2421/554960

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified as hazardous.



## 2.2. Labelling elements

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

Not labelled as hazardous.

### 2.2.2. Substance on the label

Obsolete.

### 2.2.3. Pictograms

Obsolete.

### 2.2.4. Signal word

Obsolete.

### 2.2.5. H statements

Obsolete.

### 2.2.6. P statements

- P261: Avoid breathing mist / vapours / spray.
- P280 Wear protective gloves / eye protection.

## 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.

## 3. Composition/information about the components

### 3.1. Substance/mixture

Mixture: aqueous solution of inorganic and organic ingredients.

Chemical	REACH Ref. No.	EC No.	Index No.	CAS No.	Content	Classification
Active ingredients of Midori Green Advance*	not available	not available	not available	not available	<1%	not classified as hazardous
Water	not available	231-791-2	not available	7732-18-5	>98%	not classified as hazardous

\*No obligation for declaration according to the chemical legal regulations.



## 4. First-aid measures

### 4.1. 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.

### 4.2. Description of necessary first-aid measures

#### 4.2.1. Inhalation

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

#### 4.2.2. Skin contact

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

#### 4.2.3. Eye contact



Wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

#### 4.2.4. 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.

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

Not relevant.

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

Decontamination, symptomatic treatment. No specific antidote known.



## 5. In case of fire

### 5.1. Suitable extinguishing agents



The product is not combustible, adapt the measures to the environment: water spray, carbon dioxide, extinguishing foam and dry extinguishing agent.

### 5.2. Not suitable extinguishing agents

Water jet.

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



In the fire case toxic gases – carbon monoxide, carbon dioxide, sulfur oxides, organic decomposition products – may be released.

### 5.4. 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. In case of spillage

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

Mind the protection measures (section 8). Avoid the contact with skin, eyes and cloth, wear suitable protection equipment. Ensure adequate ventilation. Avoid aerosol formation.

### 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 materials for containment and cleanup

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

No special measures needful.

### 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. Safe storage

### 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. Storage temperature 4 ° C recommended. 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, passages, stairs, public areas, roofs, 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. Information on cumulative storage

**Storage class:** non-combustible liquids.

Nothing but substances of similar properties should be cumulatively stored. Cumulative storage with substances as follows is prohibited:



- Pharmaceuticals, food and feed, including additives.
- Infectious, radioactive and explosive substances.
- Organic peroxides and very reactive oxidizing substances.

### 7.2.5. Further information to the storage conditions

None.

## 7.3. Specific end uses

None.

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# 8. Exposure controls/personal protection

## 8.1. Control parameters

Occupational exposure limits	no information available
Biological exposure limits	no information available
DNEL and PNEC values	no information available

**Reference:** For the assessment of the own risk assessment measures (**RMM**) with the charge-free tool **ECETOC TRAM** or with another method possibly a scaling for the proof of the safe use should be performed. Existing DNEL/PNEC values also may be extrapolated based at the concentrations from section 3. If an exposure scenario should be completely applicable, this shall be documented.

**Remark:** With data given by an extended SDB, this is to be done within one year after receipt of the eSDB.

## 8.2. Exposure controls

### 8.2.1. Personal protection

#### 8.2.1.1. Respiratory protection



No respiratory protection is necessary when working with the small quantities intended for the product. In case of exceptional operating conditions, working with larger quantities and with the risk of aerosol formation use suitable respiratory protection, e.g. half-masks according to EN 140 with filters according to EN 143-P1. Observe wearing time limit.



### 8.2.1.2. Hand protection



At the risk of skin contact with the product, ensure adequate protection by wearing suitable protective gloves, e.g. according to EN 374. Before use, test protective gloves for suitability under the specific working conditions (e.g., mechanical resistance, product compatibility and antistatic properties). Observe the instruction and information on the use, storage, maintenance and replacement of protective gloves. Damaged and worn protective gloves should be replaced immediately.

### 8.2.1.3. Eye protection



Eye protection goggles with side protection (EN 166).

### 8.2.1.4. 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.

### 8.2.1.5. Body protection



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

### 8.2.1.6. 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

Appearance	Liquid
Colour	orange-red to brown
Odour	Odourless
pH (at 20°C)	not applicable
Melting point / range	not applicable
Boiling point / range	not applicable
Flash point	not applicable
Self-ignition temperature	not determined
Vapor pressure (20°C)	not determined
Density	not determined
Bulk density	not determined
Water solubility (20°C)	- (unlimited)
Granulometry	not applicable
Partition coefficient: n-octanol/water log K <sub>ow</sub>	not determined
Dynamic viscosity	not determined
Explosion limit lower	not applicable
Explosion limit upper	not applicable

### 9.2. Other information

Not relevant.

## 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 temperature.

### 10.5. Incompatible materials

Strong acids and bases, oxidizing and reducing agents.

### 10.6. Hazardous decomposition products

At high temperature carbon monoxide, carbon dioxide, sulfur oxides, organic decomposition products.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1. Toxicokinetics, metabolism and distribution

No data available.

#### 11.1.2. Acute toxicity

Parameter	Result	Species	Method	Remarks
LD <sub>50</sub> oral	>10.000 mg/kg	Kunming mouse female/male	unknown	1.000-10.000 mg/kg

#### 11.1.3. Corrosive and irritation effects

No data available.

#### 11.1.4. Sensitizing effects

No data available.

#### 11.1.5. Subacute and chronic toxicity

No data available.



### 11.1.6. Carcinogenicity, mutagenicity and reproduction toxicity

Parameter	Value	Cell culture/ Species	Method	Remarks
In-vitro bacterial back-mutation test	non mutagen	<i>Salmonella typhimurium</i> TA97/98/100/102	Ames test	0,5-5 mg/plate; with / without S9 activation
NOEL <i>in-vivo</i> micro nucleus test	5.000 mg/kg (negative)	Kunming mouse female/male	Mouse bone marrow micronucleus test	1.000-5.000 mg/kg
<i>In-vitro</i> mammalian chromosomal aberration test	negative	Chinese hamster ovaries cells	<i>In vitro</i> mammalian cell chromosomal aberration detection system	31,2-5.000 µg/ml; with / without S9 activation

### 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. Ecotoxicity

No data available.

### 12.2. Persistence and degradability

Biological degradation	no data available
Abiotic degradation	



### 12.3. Bioaccumulative 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

Ozone depletion potential and global green-house effects are not known.

**General remarks:** When handled appropriate and used as intended, the product does not cause adverse effects according to our experience and current information, but should not be discharged into large quantities into an outflow or water body.

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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.

Recommendation:

AVV waste code number:	16 05 03	Other waste containing organic chemicals, e.g. lab chemicals not otherwise specified
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### 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.

Recommendation:

AVV waste code number:	15 01 06	Mixed packaging
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## 14. Transport information

### 14.1. UN number

Not relevant.

### 14.2. UN proper shipping name

Not relevant.

### 14.3. Transport hazard class(es)

Not relevant.

### 14.4. Packaging group

Not relevant.

### 14.5. Environmental hazards

Not relevant.

### 14.6. Special precautions for user

Not relevant.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.



**Remarks:** This product is not classified as dangerous good according to ADR / RID / ADN / IDMG-Code and ICAO / IATA.

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## 15. Regulatory information

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

#### 15.1.1. EU Regulations

**Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP):** The product is not subject to classification and labelling. Refer to section 2.

**Authorizations and/or use restrictions:** not applicable

**Information on Directive 1999/13/EG on VOC emission limitations:** 0% VOC in the product.

#### 15.1.1. UK Regulations

**Classification and labelling:** The product is not due to labelling according to the UK regulations.

**Other U.K. regulations and guidance:**

- Health and Safety at Work Act 1974.
- The Management of Health and Safety at Work regulations 1992.
- L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002. Approved codes of practice and guidance.
- Guidance Note EH40 - Occupational Exposure Limits.
- BS EN ISO 10882-1:2001 - health and safety in welding and allied processes - sampling of air-borne particles and gases in operator's breathing zone - part 1: sampling of airborne particles.

### 15.2. Chemical safety assessment (CSA)

Chemical safety assessments (CSA) according to the Article 14 Paragraph 1 of the Regulation (EC) No 1907/2006 (REACH) are not available.

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## 16. Other information

This information is based on our present knowledge. Its objective is to describe the product from the point of view of safety, and no warranty is made other than its characteristics. This information does not absolve the user in any circumstances from observing other Legislative, Regulatory and Administrative requirements applying to the product, and to safety, hygiene and the well-being of the people in the workplace.







**NIPPON GENETICS EUROPE GmbH**

Mariaweilerstraße 28 a, 52349 Düren

Amtsgericht Düren HRB 4672,

Bank data UFJ bank Limited: Identification code: 30130700

Account number: 610762

Managing Director: Dr. Jürgen Lünzer, Tatsuji Hata, Kazuo Yamazaki

Value Tax ID: DE 239977252