



## 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

### 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

### 2. Substance or mixture possible hazards classification

#### 2.1. Classification according to regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP)

Not a hazardous substance or mixture according to regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP)



## 2.2. Classification according to 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

## 2.3. Other hazards

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.

## 2.4. Additional hazards for humans and the environment

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.

### 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. Chemical characterization

Aqueous solution of inorganic and organic ingredients.

### 3.2. Components

Chemical	REACH Ref. No.	CAS No.	EC No.	Content	Classification according to regulation (EC) No 1272/2008
Active ingredients of Midori Green Advance*	-	not available	not available	0,1-1%	-
Water	-	7732-18-5	231-791-2	99-99,9%	-

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



## 4. First-aid measures

### 4.1. General information



If skin irritation or other symptoms persist, consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes, carefully clean before reuse.

### 4.2. After inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 4.3. After skin contact

In case of skin contact, rinse immediately with plenty of water. Consult a physician.

### 4.4. After eye contact



Eye contact: Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### 4.5. After swallowing

Never give anything to an unconscious person. Do not induce vomiting. Rinse the mouth, spit out the fluid and drink plenty of water. Call a physician immediately and show him the safety data sheet.

### 4.6. Notes to physician

Decontamination, symptomatic treatment. No specific antidote known

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.



## 5. Firefighting measures

### 5.1. Suitable extinguishing agents



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.

### 5.2. Extinguishing media which must not be used for safety reasons

No data available

### 5.3. Special hazards caused by the product, combustion products or resulting gases



In the event of fire, toxic and corrosive gases - carbon monoxide, carbon dioxide, and sulphur oxides - can be released.

### 5.4. Special protective equipment for fire-fighting



Wear protection cloth. Wear self-contained breathing apparatus for firefighting if necessary

### 5.5. Additional information

No data available

## 6. Accidental release measures

### 6.1. Personal precautions

Avoid contact with skin, eyes and clothing, wear appropriate protective equipment. Ensure adequate ventilation. Avoid aerosol formation. For personal protection see section 8.

### 6.2. Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

### 6.3. Methods for cleaning up

Soak up with absorbent material and dispose. Clean contaminated surfaces with water.



## 6.4. Reference to other sections

For disposal see section 13.

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# 7. Handling and storage

## 7.1. Handling

### 7.1.1. Information for safe handling

Inhalation of aerosols, contact with eyes, skin and clothing as well as prolonged or repeated exposure may cause irritation. Ensure that the working area is well ventilated. For precautions see section 2.2.

### 7.1.2. Information on fire and explosion protection

See section 5.

### 7.1.3. Handling rules

No special handling measures required

## 7.2. Storage

### 7.2.1. Technical measures and storage conditions

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

### 7.2.2. Packing materials

Packing materials must be tested for durability before use.

### 7.2.3. Requirements for storage rooms and containers

Keep container tightly closed in a dry and well-ventilated place. If possible, keep in the original container. Do not use food containers because of the risk of confusion. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.2.4. Further information on storage conditions

Recommended storage temperature +4 °C. Protected from light.

## 7.3. Specific end uses

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



## 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 to EN 143-P1.



Skin 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
Nitrile 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:

Safety glasses with side-shields conforming to EN166 U



Body protection:

Suitable protective clothing. Special body protection generally not required.

General protective and hygienic measures:

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 environmental exposure**

Prevent further leakage or spillage if safe to do so.

### **8.2.3. Limitation of end-user exposure**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.



## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance Form	Orange-red to brown, liquid
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Soluble in water
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### 9.2. Other information

No data available

## 10. Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under recommended storage conditions.



### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

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

### 10.5. Materials to avoid

Strong acids, oxidation and reducing agents.

### 10.6. Hazardous decomposition products

Other decomposition products: No data available.

In the event of fire: see section 5

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## 11. Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1. The acute toxicity test

Parameter	Value	Species	Remarks
LD <sub>50</sub> oral	1000-10.000 mg/kg	Kunming mice	Nontoxic

#### 11.1.2. Corrosive and irritation effects

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

#### 11.1.3. Respiratory or skin sensitization

No data available.

#### 11.1.4. Aspiration hazard

No data available.



### 11.1.5. Carcinogenicity, mutagenicity and toxicity to reproductive mutagenicity

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

Carcinogenicity: No data available

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

## 11.2. Practical experience

No data available

## 11.3. General remarks

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

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## 12. Ecological information

### 12.1. Toxicity

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**

No data available.

### **12.5. 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.

### **12.6. Other adverse effects**

No data available.

### **12.7. General remarks**

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

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## **13. Disposal considerations**

### **13.1. 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.

### **13.2. 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)

ADR/RID, IMDG, IATA: None

### 14.4. Packaging group

ADR/RID, IMDG, IATA: None

### 14.5. Environmental hazards

ADR/RID, IMDG, IATA: None

### 14.6. Special precautions for user

Not data available.

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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 Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture, see section 2



### **15.1.3. Hazardous components which must be listed on the label.**

#### **15.1.4. Pictograms: None**

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

#### **15.1.5. Special labeling of certain preparations**

Neither banned nor restricted

#### **15.1.6. Approvals and / or restrictions of use**

Neither banned nor restricted

#### **15.1.7. Information on Directive 2004/42/CE on the limitation of VOC emissions**

Neither banned nor restricted

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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.



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