MIDORI Green Xtra

Cat. No.	Product	Content
MG10	MIDORI Green Xtra	1 mL
MG09	MIDORI Green Xtra sample	50 µL

1. Identity of the substance and the manufacturer

1.1. Name of the substances or preparations
MIDORI Green Xtra

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. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to the Regulation (EC) No. 1272/2008 (GHS/CLP)
Classification according to EU Directives 67/548/EC or 1999/45/EC (DSD/DPD)

2.2. Labelling elements

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

Substance on the label:	Midori Green Xtra
Pictograms:	Not needed
Signal word:	Not relevant

May cause eye, skin and respiratory tract irritation.

2.3. Other hazards

2.3.1. Hazards deriving from physical-chemical properties

The data available do not support any physical or chemical hazard, but not flammable.

2.3.2. Human health hazards

May be irritating to eyes, respiratory system and skin.
Caution: Avoid inhalation, ingestion and skin contacts.

2.3.3. Enviromental hazards

The data available do not support any environmental hazard.

3. Composition/information about the components

3.1. Substances

Not relevant.

3.2. Mixtures

3.2.1. Chemical characterization

Aqueous solution.

Chemical name	EC No.	Index No.	CAS No.	Content	Classification
Dimethyl sulfoxide	200-664-3	Not available	67-68-5	<65%	Not relevant

For the wording of the listed risk phrases refer to section 16.

4. First-aid measures

4.1. Description of necessary first-aid measures

4.1.1. General information

No special measures required.

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. Eye 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 give 100 - 200 mL of water to drink. If complains and symptoms occur seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No symptoms known.

4.3. Indication of any immediate medical attention and special treatment needed

Not needed.

5. In case of fire

5.1. Suitable extinguishing agents

Water spry, Carbon dioxide (CO_2), dry chemical powder or appropriate foam.

5.2. Not suitable extinguishing media for safety reasons

None.

5.3. Specific hazards from chemical compounds

Not thoroughly investigated.

5.4. Protective equipment and precautions for fire fighters

Use a self-contained breathing apparatus (SCBA) at poor ventilation and in closed rooms. Wear protection clothing. 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. Containment and cleanup
- Absorb spillages with liquid-binding material.
- Ventilate and wash the area after the spillage is completely removed.

6.4. Reference to other sections
Refer to section 8 - personal protection and section 13 - information on disposal.

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.

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, 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. Information on cumulative storage
Storage class: not relevant.

7.2.5. Further information to the storage conditions
None.

7.3. Specific end uses
None.

8. Exposure controls/personal protection

8.1. Control parameter

8.1.1. Occupational exposure limits

Chemical name	CAS No.	Exposure limit type / source		
Dimethyl sulfoxide	67-68-5	Germany	TWA: 50 ml/m^3	TWA 160 mg/m^3
		Finland	TWA: 50 ml/m^3	
		Denmark	TWA: 50 ml/m^3	TWA 160 mg/m^3
		Austria	TWA: 50 ml/m^3	TWA 160 mg/m^3
		Switzerland	TWA: 50 ml/m^3	TWA 160 mg/m^3

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

- Wear rubber gloves.
- No special requirements to rubber.

8.2.1.3. Eye protection

- Eye protection goggles with side protection (EN 166).

8.2.1.4. Skin protection

- Use clothing usal 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

9.1.1. Appearance

Physical status: liquid
Color: transparent
Odour: odourless
pH: 8-9

9.1.2. Fundamental data relevant for security

Parameter	Data
pH value at 25°C	No data available
Boiling point	189°C
Evaporation rate (water=1)	n.a.
Flash point	88°C
Self-ignition temperature	n.a.
Vapor pressure at 20°C	n.a.
Density	1.1 g/cm^3
Vapor density (air=1)	n.a.
Water solubility at 20 °C	Fully miscible
Fat solubility	n.a.
Viscosity	n.a.
Oxidizing properties	n.a.
Conductivity	n.a.

n.a.: 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
No coditions which may cause dangerous reactions.

10.5. Incompatible materials
No in particular.

10.6. Hazardous decomposition products
No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute toxicity
Inhalation: Aerosols may cause allergic type reactions in sensitized individuals.
Ingestion: Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.
Skin and eye contact: Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

Chemical name	LD59 Oral	LD50 Dermal
Dimethyl sulfoxide	145000 mg/kg (Rat)	40000 mg/kg (Rat)

11.1.2. Corrosive and irritation effects
No data availbale.

11.1.3. Sensitizing effects
No data availbale.

11.1.4. Subacute and chronic toxicity
May cause injury to the liver and kidneys.

11.1.5. Carcinogenicity, mutagenicity and reproduction toxicity
No cytotoxic or mutagenic effects could be detected. See Safety Report (Ames and Cytotoxicity Test).

11.1.6. Experience from practise
See Safety Report (Ames and Cytotoxiyity Test).

11.1.7. 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
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can make harmful or damaging effects on the environment.

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. Volatibility
No data available.

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

12.7. Other adverse effects
No data available.

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.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product
Dispose of in accordance with local regulations.

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.

14. Transport information

14.1. INDG/IMO
Non-hazardous for sea freight.

14.2. RID
Non-hazardous for rail transport.

14.3. ARD
Non-hazardous for road transport.

14.4. ICAO/IATA
Non-hazardous for air transport.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No information available.

15.2. Chemical safety assessment
No information available.

15.3. Chemical safety assessment

15.3.1. US

15.3.1.1. Labelling according to US Regulations
Caution: Avoid contact and inhalation.

15.3.1.2. US Regulatory information
SARA LISTED: No.

15.3.2. EU

15.3.2.1. Labelling according to EU Guidelines
The preparation is not dangerous within the meaning of Directives 67/548/EC, and is not labelled with danger symbols or indications of danger.

15.3.3. Canada

15.3.3.1. WHMIS classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all information required by the CPR.

15.3.3.2. DSL
No.

15.3.3.3. NDSL

No.

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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