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 (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

2.2.4. Signal word

Caution.

2.2.5. H statements

H319	Causes serious exe irritation
H315	Causes skin irritation
H335	May cause respiratory irritation

2.2.6. P statements

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

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

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 with inorganic and organic components.

3.2 Components

Name	REACH-Ref.-No.	CAS No.	EC No.	Proportion %	Classification according to 67/548/EEC and 1999/45 / EC; (EC) No1272/2008
Dimethyl sulfoxide	-	67-68-5	200-664-3	<65%	Xi; R63/R37/R38
Propylene glycol	-	57-55-6	200-338-0	<35%	-
Midori Green Xtra DNA Stain*	-	-	-	<1%	-

*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 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

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 protective clothing. 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 Containment and cleanup

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

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Handling

7.1.1 Information for safe use

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 Safe 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 use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1 Control parameter
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
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.

8.2.1 Personal protective equipment

8.2.1.1 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.

8.2.1.2 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
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

8.2.1.3 Eye protection

Safety glasses with side-shields conforming to EN166 U

8.2.1.4 Body protection

Suitable protective clothing. Special body protection generally not required.

8.2.1.5 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

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

Parameter	Data
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 date 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 safety 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
No data available.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 The acute toxicity test
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 Respiratory or skin sensitization
No data availbale.

11.1.4 Aspiration hazard
No data availbale.

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

11.1.6 Carcinogenicity, mutagenicity and toxicity to reproduction mutagenicity
No cytotoxic or mutagenic effects could be detected.

Parameter	Value	Cell culture/ Species	Method	Remarks
In vitro bacterial mutation test	0,4-50 mg/plate	Salmonlla typhimurium TA97/98/100/102	AMES-test	Non-mutagenic

Carcinogenicity: No data available

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

11.3 Practical experience
No data available

11.4 General remarks
When used and handled according to instructions, 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
No data available.

12.5 Results of 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.

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.

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

14.2.1 ADR/RID, GGVSEB

Not dangerous good during shipping

14.2.2 IMDG / GGVSee

Not dangerous good during shipping

14.2.3 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

No data available

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 1907/2006 (REACH) for the components of the product are neither banned nor restricted

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

Not a hazardous substance or mixture, see section 2

15.1.4 Hazardous components which must be listed on the label.

None

15.1.5 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

15.1.6 Special labeling 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

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, Kazuo Yamazaki
Value Tax ID: DE 239977252