

Revision date: 31/03/2011

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY	
Product name	Midori Green Direct DNA Stain
Catalog number	MG05 MG06
Manufacturer/Supplier	Nippon Genetics Europe GmbH Binsfelder Strasse 77 52351 Düren Germany Phone: +49 2421 2084690 Fax: +49 2421 2084691
Information in case of emergency	Phone: +49 2421 2084690 e-mail: info@nippongenetics.eu

2. COMPOSITION/ INFORMATION ON INGREDIENTS		
Chemical Name	CAS Number	Proportion
Double distilled water	7732-18-5	99%
C21H28N4	n/a	1%

3. HAZARDS IDENTIFICATION	
Hazard description	The product contains no substances which at their given concentration, are considered to be hazardous to health. Not hazardous according to Directive 67/548/EEC
Information pertaining to particular dangers for man and environment	The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Only for trade users / technical specialists.
Classification system	The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
GHS label elements se	Void

4. FIRST-AID MEASURES	
Inhalation	Move to fresh air .If breathing becomes difficult, call a physician.
Ingestion	Wash out mouth with water provided person is conscious. Call a physician.
Skin contact	Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.
Eye contact	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyes with fingers. Call a physician.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical powder, CO ₂ , water spray or appropriate foam.
Protective equipment	Wear self-contained breathing apparatus and protective clothing if necessary.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Minimize direct contact with skin and eyes.
Measures for environmental protection	Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
Measures for cleaning/collecting	Pick up and arrange disposal. Keep in suitable, closed containers for disposal. Ventilate after spill.
Additional information	No dangerous substances are released.

7. HANDLING AND STORAGE	
Handling	Avoid contact with skin and eyes. Avoid inhalation. Avoid prolonged or repeated exposure
Storage	Keep container tightly closed in dry and well-ventilated place. Light sensitive. Hygroscopic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure limits	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Personal protective equipment	
Respiratory protection	Not required.
Hand protection	Protective gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Eye protection	Protective goggles.
Skin and body protection	Appropriate protective clothing.
Hygiene measures	Do not eat, drink or smoke when handling this product. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Form	Liquid.
Color	Brown.
Odour	Odourless.
Ph value	N/A
Boiling point	N/A
Melting point	N/A

Flash point	N/A
Autoflammability	N/A
Explosion hazard	N/A
Vapor pressure	N/A
Relative density	N/A
Water solubility	Easily soluble.

10. STABILITY AND REACTIVITY

Thermal decomposition	None, if used according to specifications.
Dangerous reactions:	Protect from strong oxidizing agents.
Hazardous decomposition products	Hazardous Decomposition Products formed under fire conditions are Carbon monoxide , Carbon dioxide ,Nitrogen oxides ,Hydrogen iodide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:	
Inhalation	May cause irritation to upper respiratory tract and mucous membranes. May be harmful if inhaled.
Skin contact	May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin.
Eye contact	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Sensitization	No sensitizing effects known.
Additional toxicological information	<p>Acute toxicity LD50 Subcutaneous Mouse 250 mg/kg Target organ information - Blood Chronic exposure – Carcinogen Result: The agent (mixture, exposure circumstance) is probably not carcinogenic to humans. The agent has a negative result in mouse marrow chromophilus erythrocyte micronucleus test. The agent has a negative result in mouse spermary spermatocyte chromosomal aberration test. IARC carcinogen list Rating: Group 4 Chronic exposure – Mutagen Result: Laboratory experiments and Ames test have shown few mutagenic effects.</p>

12. ECOLOGICAL INFORMATION

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Contact a professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber. Chemical residues are generally classified as special waste, and as such covered by regulations, which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: Non-hazardous for road transport.

Maritime transport IMDG:

IMDG Class: Non-hazardous for sea transport.

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: Non-hazardous for air transport.

UN "Model Regulation": -

Transport/Additional information: Not dangerous according to the above specifications.

15. REGULATORY INFORMATION

Labeling according to EU guidelines

This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

16. OTHER INFORMATION

MSDS Creation Date: 04.11.2008

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions. Nippon Genetics Europe GmbH shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals