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FastGene® MOPS Buffer Pouches

Safety Data Sheet

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name: FastGene® MOPS Buffer Pouches
Cat. No.: PG-MOPS10
EC Substance name: not available
CAS Number: not available
EC Number: not available
REACH Reference Number: not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Mixture of chemicals for industrial and public laboratory analysis
Uses advised against: Unknown.

1.3 Details of the supplier of the safety data sheet

Supplier: NIPPON GENETICS EUROPE GmbH
Binsfelder Straße 77
D- 52351 Düren, Germany
Phone.: +49 (0) 2421 / 554960
Fax: +49 (0) 2421 / 5549611
E-Mail: info@nippongenetics.de
Internet: www.nippongenetics.eu

Information on further details at: Technical Support
Phone: +49 (0) 2421 / 554960
Fax: +49 (0) 2421 / 5549611
E-Mail: sdb@nippongenetics.de

1.4 Emergency telephone no:

Emergency information: Phone: +49 (0) 2421 / 554960
Within the business hours: Monday to Friday, 8 a.m. to 5 p.m.

2. Hazards identification

2.1 GHS-Classification

Signal Word: WARNING
Health hazards: Skin corrosion Category 3
Physical hazards: Not hazardous
Hazard Statements: H302 Harmful if swallowed.
H316 - Causes mild skin irritation
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist /spray.
P280 Wear protective gloves.
P280 Wear eye protection / face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national /international regulations.
P332 + P313 - If skin irritation occurs: Get medical advice/attention

2.2 Principle Routes of Exposure Potential Health Effects

Eyes: May cause eye irritation with susceptible persons.
Skin: May cause skin irritation in susceptible persons.

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Inhalation: May be harmful by inhalation.
Ingestion: May be harmful if swallowed.

2.3 Specific effects

Carcinogenic effects: None.
Mutagenic effects: None.
Reproductive toxicity: None.
Sensitization: None.
Target Organ Effects: No known effects under normal use conditions.

2.4 HMIS

Health 1
Flammability 0
Reactivity 0

3. Composition / information on ingredients:

3.1 Substances:


Chemical Name	CAS-No	EINECS-No	Weight %
SDS	151-21-3	205-788-1	5.6
Tris	77-86-1	201-064-4	34
EDTA	60-00-4	200-449-4	1.7
MOPS	1132-61-2	214-478-5	58.7

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. First aid measures

4.1 Description of the first aid measures:

4.1.1 General information:

 If complaints persist consult a physician. Remove contaminated cloths and shoes, thoroughly clean before re-use. If complaints and symptoms occur seek medical advice.


4.1.2 Inhalation:

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

4.1.3 Skin contact:

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

4.1.4 Eye contact:

 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

4.1.5 Ingestion:

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.1.6 Notes to physician:

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media:

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

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5.2 Special hazards arising from the substance or mixture:

Not known.

5.3 Special protective equipment for firefighters:

Standard procedure for chemical fires.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid the contact with skin, eyes and cloth, wear suitable protection equipment.

6.2 Environmental precautions:

No special environmental precautions required. See Section 12 for more information.

6.3 Methods and material for containment and cleaning up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

7.1 Precautions for safe handling:

Always wear recommended personal protective equipment. No special handling advices are necessary.

7.2

Keep in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

8.1 Control parameters:

Chemical name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
SDS	None	None	None	None
Tris	None	None	None	None
EDTA	None	None	None	None
MOPS	None	None	None	None

8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

8.3 Personal protective equipment:



Hand protection:

Impervious gloves.



Eye protection:

Eye protection goggles with side protection (EN 166).

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Skin and body protection

Lightweight protective clothing.



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.

8.4 Limitation of the environmental exposure:

No special environmental precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance:

Physical status: solid powder
Color: white
Odor: no data available

9.1.2 Fundamental data relevant for security:

Parameter	Value
Boiling point / boiling range °C	No data available
Melting point / melting range °C	No data available
flash point: °C	No data available
Autoignition Temperature °C	No data available
Oxidizing properties	No data available
Water solubility	No data available

10. Stability and Reactivity

10.1 Stability:

Stable under the intended use and storage conditions.

10.2 Materials to avoid:

No dangerous reaction known under conditions of normal use.

10.3 Hazardous decomposition:

Hazardous reaction has not been reported.

10.4 Product polymerization:

Hazardous polymerization does not occur.

11. Toxicological information

11.1 Information on toxicological effects:

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Chemical name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
SDS	1288 mg/kg (Rat)	No data available	>3900 mg/m ³ (Rat)
Tris	5900 mg/kg	No data available	No data available
EDTA	No data available	No data available	No data available
MOPS	No data available	No data available	No data available

11.2 Principle Routes of Exposure Potential Health Effects

Eyes	May cause eye irritation in susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

12. Ecological information

- 12.1 Eco-toxicity:** The environmental impact of this product has not been fully investigated.
- 12.2 Mobility:** No information available.
- 12.3 Biodegradation:** Inherently biodegradable.
- 12.4 Bioaccumulation:** Material does not bioaccumulate.

Chemical name	Freshwater algae data	Water flea data	Freshwater fish species data	Microtox data	Log pow
SDS	Pseudokirchneriella subcapitata EC50=117 mg/L(96h) Desmodesmus subspicatus EC50=5 3 mg/L (72 h), Desmodesmus subspicatus EC5030 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC503.59 - 15.6 mg/L (96 h)	Daphnia magna EC50=1.8 mg/L (48 h)	/	/	/

13. Disposal considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

IATA

Proper shipping name	No dangerous good in sense of these transport regulations.
Hazard Class	This substance is considered to be non-hazardous for transport.
Subsidiary class	None
Packing group	None

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UN-No

None

15. Regulatory information

15.1 US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

15.2 US State Regulations

Chemical name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
SDS	-	-	-	-	-
Tris	-	-	-	-	-
EDTA	-	-	-	-	-
MOPS	-	-	-	-	-

California Proposition 65

This product does not contain any proposition 65 chemicals.

15.3 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information

Disclaimer: For research use only.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.