

ENZYMATIC CLEANING

Part Number : 099-021

Version 1 – Date of revision : 12-oct-2009

According to EC Regulation No. 1907/2006 (REACH)



1. Identification of the substance / preparation and of the company

Trade name:

Enzymatic cleaning

Part number:

099-021

Use of the substance / preparation:

Detergent for in-vitro diagnostic use (cleaner for HPLC)

Identification of the company / supplier:

Drew Scientific Inc.

4230 shilling way, Dallas, TX 75237, USA

Responsible for Safety Data Sheets:

QA Department:

Tel.: + 1 214 210 4900 Fax: +1 214 210 4949

e-mail: productsusa@drew-scientific.com (USA),

products@drew-scientific.com (Rest of the World)

Emergency telephone:

Refer to your local regulations

2. Hazards identification

Classification

None

Information pertaining to special dangers for human and environment

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/EEC is not required. The concentration of the hazardous ingredients is below the limits of classification. Risks cannot be excluded if the product is handled inappropriately:

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**3. Composition / information on ingredients****Chemical characterization (preparation)**

Aqueous buffer with of 2-phenoxyethanol, enzymatic de-proteinizer, buffer, detergents and preservative.

Hazardous Ingredients

Substance	EC-No.	REACH-No.	EC-Index-No.	CAS-No.	Amount [%]	Classification / Labeling	
						Symbol	R-Phrases
2-phenoxyethanol	204-589-7	-	603-098-00-9	122-99-6	< 1%	Xn	21-36

4. First aid measures**General Information**

Take off contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately.

After inhalation

Fresh air

After skin contact

Wash off with plenty of water and soap.

After eye contact

Rinse out with plenty of water (with eyelid held wide open for at least 15 min). Call in ophthalmologist.

After swallowing

Rinse mouth with water; prevent the victim from drinking water and vomiting. Seek medical advice immediately.

Information to physician

The preparation contains 2-phenoxyethanol

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5. Fire-fighting measures

Suitable extinguishing media

In adaption to materials stored in the immediate neighborhood. Product is inflammable.

Extinguishing media which must not be used for safety reasons

Not applicable

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

No data available

Special protective equipment for fire-fighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional information

None

6. Accidental release measures

Personal precautions

Avoid contact with substance. Ensure supply of fresh air in enclosed rooms.

Environmental precautions

Do not allow the substance to enter the drains.

Methods for cleaning-up

Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal.

Additional information

None

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7. Handling and storage

Advices on safe handling

Prevent any contact with skin, eyes – Wear protective equipment

Precautions against fire and explosion

Not applicable

Storage conditions

Keep only in the original container.

8. Exposure controls / personal protection

Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: not required, if the product is used according to the intended purpose

Hand protection: Protection gloves recommendable;

In full contact: glove material nitrile rubber, layer thickness: 0.11 mm

Protective clothing: lab coat

Eye protection: safety glasses

Industrial hygiene

Avoid contact with eyes and skin. For the safety at work do not eat, drink, smoke, snuff. Wash hands after working with the product.

9. Physical and chemical properties

Appearance

Physical state: liquid

Colour: pale yellow

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Odour: perceptible

Safety relevant basic data

pH value (at 20 °C): 8-9

Boiling point/ boiling range: not known

Flash point: not applicable

Explosion hazard: not applicable

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Ignition temperature: not applicable

Vapour pressure: not known

Density: not known

Solubility in water (@ 20 °C): completely soluble

10. Stability and reactivity

Conditions to avoid

Strong acids and bases. Strong oxidizing or reducing agents.

Hazardous decomposition products

HCl gas.

11. Toxicological information

The toxicological classification of the preparation was calculated according to the provisions the directive 1999/45/EC. According to our experiences, further hazards beyond those being specified in the labeling must not be anticipated.

Toxicological examinations

No data available

Information on ingredients

Substance	CAS-No.	LD50 (oral)	LD50 (dermal)	LC50 (inhalation)
2-phenoxyethanol	122-99-6	rat: 1 260 mg/kg	rat: 14 422 mg/kg	no data available

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Properties that must be anticipated on the basis of the components of the preparation

After swallowing: may cause nausea.

After skin contact: may cause irritations.

After inhalation: may cause irritation

After eye contact: may cause irritations.

Systemic effects: not known

12. Ecological information

Ecotoxic effects (ingredients)

No data available

Mobility, persistence and degradability, bio-accumulative potential (ingredients)

No data available

Results of PBT assessment

No data available

Other adverse effects

No data available

13. Disposal Considerations

Recommendation

For disposal, laboratory waste should be collected separately with regard to its different chemical properties. Waste of this product can be collected as “aqueous salt solution“.

Product (substance / preparation) / contaminated packaging

The product must be disposed of in compliance with the respective national regulations. Contaminated packaging must be disposed as the product itself.

Cleaned packaging

Non-contaminated and cleaned packaging can be recycled. Recommended cleanser: water

14. Transport Information

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Not subject to the regulations for the transport of dangerous goods.

15. Regulatory Information

Labeling according to EU Regulations

Hazard symbols: none

Hazard statements: none

R-phrases: none

S-phrases: none

16. Other Information

Risks: none

Users formation: users must be aware of chemical and biological risks.

Use restrictions: the product is dedicated to in-vitro diagnostic analyses.

Reference : MSDS of our suppliers.

This MSDS completes the insert sheet of the product. The information above is believed to be accurate and represents the best information currently available to us. It characterizes the product with regard to the appropriate safety precautions and to the described use.

Alterations to previous version: none (first version)