

PUMP MAINTENANCE FLUID

Part Number: 099-020

Version 1 – Date of revision : 15-oct-2009

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



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

Trade name:

Pump Maintenance Fluid

Part number:

099-020

Use of the substance / preparation:

Maintenance fluid for in-vitro diagnostic 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 according to Directive 67/548/EEC

Flammable

Information pertaining to special dangers for human and environment

The classification according to categories of danger as specified in Directive 67/548/EEC is Flammable (R10). Risks cannot be excluded if the product is handled inappropriately:

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

Aqueous solution of ethyl alcohol.

Hazardous Ingredients

Substance	EC-No.	REACH-No.	EC-Index-No.	CAS-No.	Amount [%]	Classification / Labelling	
						Symbol	R-Phrases
Ethyl alcohol	200-578-6	-	603-002-00-5	64-17-5	20%	F	11

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 ophtalmologist.

After swallowing

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

Information to physician

The preparation contains sodium azide (amount < 0.1 mass %)

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5. Fire-fighting measures

Suitable extinguishing media

In adaption to materials stored in the immediate neighbourhood. In the beginning of a fire, use CO₂ or foam. For bigger fire, use quickly water (spray).

Extinguishing media which must not be used for safety reasons

Water jet.

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

Resulting gases of ignition is carbon oxides.

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. Prevent from ignition sources. Vapours can pile up in lower places.

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 according to §.13.

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

Avoid source of ignition and piled-up electrostatic charges. Avoid warmth.

Storage conditions

Store in dry place, in a tight container.

8. Exposure controls / personal protection**Exposure limit values**

Chemical name	CAS No.	Exposure limit values	
Ethanol	64-17-5	France INRS	<i>Value (8 hours):</i> 1 000 ppm / 1 950 mg/m ³
			<i>short term value (< 15 min):</i> 9 500 mg/m ³
		USA AGGIH	<i>Value (8 hours):</i> 1 000 ppm
		Germany MAK	<i>Value (8 hours):</i> 500 ppm / 960 mg/m ³

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

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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.

Environmental exposure controls

See sections 6 and 7.

9. Physical and chemical properties

Appearance

Physical state: liquid

Colour: colourless

Safety relevant basic data

pH value (at 20 °C): not known

Boiling point/ boiling range: not known

Flash point: 41°C (closed cup)

Explosion hazard: not known

Lower explosion limit: not known

Upper explosion limit: not known

Ignition temperature: not known

Vapour pressure: not known

Density: 0.9

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

10. Stability and reactivity

Stable in described

Conditions to avoid

Strong acids / bases / oxidizing and reducing agents / peroxides

Hazardous decomposition products

Carbon oxides.

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**11. Toxicological information**

The toxicological classification of the preparation was calculated according to the provisions the directive 1999/45/EC.

Toxicological examinations

No data available

Information on ingredients

Substance	CAS-No.	LD50 (oral)	LD50 (dermal)	LC50 (inhalation)
Ethanol	26628-22-8	rat: 7060 mg/kg	rabbit: 20 mg/kg	Rat : 20 000 ppm

Properties that must be anticipated on the basis of the components of the preparation (ethanol)

After swallowing: may cause irritations of mucous membranes in the mouth.

After skin contact: may cause slight irritations.

After inhalation: may cause irritation symptoms in the respiratory tract

After eye contact: may cause irritations.

12. Ecological information**Ecotoxic effects (ingredients)**

No data available

Mobility, persistence and degradability, bioaccumulative potential (ingredients)

No data available

Results of PBT assessment

No data available

Other adverse effectsNo data available

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13. Disposal Considerations

Recommendation

For disposal, laboratory waste should be collected separately with regard to its different chemical properties.

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

ADR/RID

Numéro ONU: 1170 Classe: 3 Groupe d'emballage: III

Nom d'expédition: ÉTHANOL EN SOLUTION

IMDG

UN-Number: 1170 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: ETHANOL SOLUTION

Marine pollutant: No

IATA

UN-Number: 1170 Class: 3 Packing group: III

Proper shipping name: Ethanol solution

15. Regulatory Information

Labeling according to EU Regulations

Hazard symbols: none

Hazard statements: flammable

R-phrases: R10

S-phrases: none

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16. Other Information

Risks: R10 - flammable

Users' formation: users must be aware of chemical risks.

Use restrictions: the product is dedicated to the maintenance of in-vitro diagnostic instruments.

Reference : INRS (French Institute – risk prevention) toxicological sheet # FT48.

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 characterises the product with regard to the appropriate safety precautions and to the described use.

Alterations to previous version: none (first version)