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#### **SECTION 1. IDENTIFICATION**

Product name : Calibrator for automated systems

Mat.-No./ Genisys-No. : 10759350360

Chemical nature : Handle as potentially infectious.

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

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Address : 9115 Hague Road

46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or

Canada)

1-703-527-3887 (International)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### **GHS Label element**

Not a hazardous substance or mixture.

#### Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## Cfas USA F1-oSw

#### **GHS Classification**

Not a hazardous substance or mixture.

Chemical nature : Handle as potentially infectious.

# **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
pentaerythritol	115-77-5	>= 10 - < 20
tetramethylammonium chloride	75-57-0	>= 0.1 - < 1

## **SECTION 4. FIRST AID MEASURES**



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General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

: No information available.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: No information available.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.

Environmental precautions : Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.



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#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
pentaerythritol	115-77-5	TWA	10 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		(Respirable)		
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be

discussed with the producers of the protective gloves.

Eye protection : Safety glasses



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Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance : (lyophilised)

Colour : light yellow

Odour : characteristic

pH : 6.9, Concentration: 100 g/l

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Flammability (solid, gas) : Sustains combustion

Upper explosion limit : No data available

Lower explosion limit : No data available

Solubility(ies)

Water solubility : soluble

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

: No data available



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## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Cfas USA F1-oSw

# Information on likely routes of exposure

### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

pentaerythritol:

Acute oral toxicity : LD50 Oral (Mouse): 18,500 mg/kg

LD50 Oral (Rat): 18,500 mg/kg

LD50 Oral (Rabbit): 18,500 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 30 mg/l

Method: Expert judgement

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

tetramethylammonium chloride:

Acute oral toxicity : LD50 Oral (Rat): 50 mg/kg

Symptoms: Spasm, Dizziness

LD50 Oral (Rat): 80 mg/kg

Symptoms: Spasm

Acute dermal toxicity : LD50 Dermal (Rat): 537 mg/kg

Skin corrosion/irritation

Not classified based on available information.

**Components:** 

pentaerythritol:

Remarks: This information is not available.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

pentaerythritol:

Remarks: This information is not available.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.



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# Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

# **Components:**

#### tetramethylammonium chloride:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## Components:

# tetramethylammonium chloride:

No data available

#### **Further information**

# **Components:**

## tetramethylammonium chloride:

Remarks: Other dangerous properties can not be excluded.

### **SECTION 12. ECOLOGICAL INFORMATION**

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#### **Ecotoxicity**

**Product:** 

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

**Components:** 

pentaerythritol:

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 38,900 mg/l

Exposure time: 24 h

Toxicity to fish (Chronic

toxicity)

: > 1 mg/l

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

tetramethylammonium chloride:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 462 mg/l

Exposure time: 96 h

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

#### Persistence and degradability

**Components:** 

pentaerythritol:

Biodegradability : Biodegradation: 99 %

Exposure time: 28 d

Method: OECD Test Guideline 301

tetramethylammonium chloride:

Biodegradability : Remarks: Expected to be biodegradable

**Bioaccumulative potential** 

No data available

Mobility in soil

No data available



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Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Components:

pentaerythritol:

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Special treatment as infectious material is mandatory in

compliance with local regulations (disinfection and

incineration).

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

# International Regulation

IATA-DGR

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

49 CFR

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

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**EPCRA - Emergency Planning and Community Right-to-Know Act** 

**CERCLA Reportable Quantity** 



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Components	CAS-No.	Component RQ	
		(lbs)	(lbs)
Copper(II)sufate-pentahydrate	7758-99-8	10	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium azide	26628-22-8	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI

Intermediate or Final VOC's (40 CFR 60.489):

pentaerythritol 115-77-5 16.267 % Sodium acetate 6131-90-4 1.94 %

trihydrate

# **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

iron (II) sulfate (1:1) 7782-63-0 0.0064 %

heptahydrate

Copper(II)sufate- 7758-99-8 0.0024 %

pentahydrate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

iron (II) sulfate (1:1) 7782-63-0 0.0064 %

heptahydrate

Copper(II)sufate- 7758-99-8 0.0024 %

pentahydrate

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Massachusetts Right To Know

pentaerythritol 115-77-5 10 - 20 %

## Pennsylvania Right To Know

Human serum /-plasma / -hemolysate, Not Assigned 50 - 70 % lvophilized pentaerythritol 115-77-5 10 - 20 % 4-(2-hydroxyethyl)piperazin-1-7365-45-9 5 - 10 % ylethanesulphonic acid Albumins, blood serum 9048-46-8 5 - 10 % non hazardous compounds Not Assigned 5 - 10 %



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# **New Jersey Right To Know**

Human serum /-plasma / -hemolysate,	Not Assigned	50 - 70 %
lyophilized		
pentaerythritol	115-77-5	10 - 20 %
4-(2-hydroxyethyl)piperazin-1-	7365-45-9	5 - 10 %
ylethanesulphonic acid		
Albumins, blood serum	9048-46-8	5 - 10 %
non hazardous compounds	Not Assigned	5 - 10 %

California Prop 65

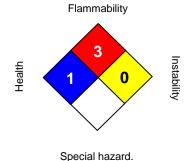
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

lithium carbonate 554-13-2

## **SECTION 16. OTHER INFORMATION**

#### **Further information**

# Cfas USA F1-oSw NFPA:



## HMIS III:

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0

- 0 = not significant, 1 =Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, \* = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.