

according to Regulation (EC) No 1907/2006

## 22542-49 Citric Acid F Reagent Solution

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

22542-49 Citric Acid F Reagent Solution

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

#### Use of the substance/mixture

Water analysis

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach-lange.de
Internet: www.hach-lange.com
Responsible Department: HACH LANGE Ltd.

Pacific Way

Salford Manchester M50 1DL - United Kingdom

Tel. +44 (0) 161 872 1487 e-Mail: info@hach-lange.co.uk

HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info@hach-lange.ie

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

This mixture is not classified as dangerous according to Directive 1999/45/EC.

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.2. Label elements

## Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures



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#### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-791-2	Water	>80 %
7732-18-5		
201-069-1	Citric acid	16 %
77-92-9	Xi - Irritant R36	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
201-176-3	Propionic acid	<1 %
79-09-4	C - Corrosive R34	

Full text of R and H phrases: see Section 16.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

Take off all contaminated clothing immediately.

#### After inhalation

Move to fresh air.

## After contact with skin

Wash off immediately with plenty of water.

## After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## After ingestion

Clean mouth with water and drink afterwards plenty of water.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

## 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**



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#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

## 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

## 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep in a dry, cool place.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-09-4	Propionic acid	10	31		TWA (8 h)	WEL
		15	46		STEL (15 min)	WEL

## 8.2. Exposure controls

## Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

## **Hand protection**

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Eye protection

Safety glasses with side-shields

## Skin protection

Remove and wash contaminated clothing before re-use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

Test method

pH-Value (at 20 °C):

Changes in the physical state

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<1 °C Melting point: >100 °C Boiling point: not applicable Flash point: not applicable Lower explosion limits: Upper explosion limits: not applicable Density (at 20 °C): 1,07 g/cm<sup>3</sup>

### **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

#### 10.5. Incompatible materials

No dangerous reaction known under conditions of normal use.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### **Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
77-92-9	Citric acid						
	oral	LD50	3000 mg/kg	Ratte			

## Specific effects in experiment on an animal

No data is available on the product itself.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name								
	Aquatic toxicity	Method	Dose	h	Species	Source			
77-92-9	Citric acid								
	Acute crustacea toxicity	EC50	160 mg/l	48	Crustacea				

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Advice on disposal

In accordance with local and national regulations.

## Waste disposal number of waste from residues/unused products

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.



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#### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number:** 3265

**14.2. UN proper shipping name:** Corrosive liquid, acidic, organic, n.o.s.

14.3. Transport hazard class(es): 8
14.4. Packing group:

#### Inland waterways transport (ADN)

## Other applicable information (inland waterways transport)

Not tested

## Marine transport (IMDG)

**14.1. UN number:** 3265

**14.2. UN proper shipping name:** Corrosive liquid, acidic, organic, n.o.s. (Citric acid solution)

14.3. Transport hazard class(es):814.4. Packing group:IIIMarine pollutant:--

EmS: F-A,S-B

Air transport (ICAO)

**14.1. UN number:** 3265

14.2. UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Citric acid solution)

14.3. Transport hazard class(es): 8
14.4. Packing group: |||

## Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group

II, EMS Code: F-A, S-P

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** regulatory information

#### **Additional information**

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating



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## **SECTION 16: Other information**

## Full text of R phrases referred to under Sections 2 and 3

34 Causes burns.
36 Irritating to eyes.

## Full text of H statements referred to under Sections 2 and 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of

product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)