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	<b>Citric Acid 50%</b>	Date : 17/7/2015
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#### **Producer**

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### **1. Identification of the product**

Trade name : Citric Acid 50%  
Type of product : Citric Acid.  
Use : Industrial.  
Company identification : See producer.

### **2. Hazards identification**

#### **Risk advic to man and the environment**

Xi R36 irritating to eyes.

### **3. Information on ingredients**

#### **Hazardous components**

Citric acid Concentration : >= 45,00% - <= 55,00%  
CAS-No. : 77-92-9 EC-No.: 201-069-1  
Classification: Xi; R36

For the full text of the R phrases mentioned in this Section, see Section 16.

### **4. First aid measures**


#### **First aid**

- Inhalation : Remove victim to fresh air.  
- Skin contact : Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.  
- Eye contact : Rinse immediately with plenty of water, also under the eyelids. Consult an eye specialist immediately.  
- Ingestion : Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

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## **5. Fire - fighting measures**

Suitable extinguishing media :	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters :	In the event of fire, wear self contained breathing apparatus.

## **6. Accidental release measures**

Personal precautions:	Use personal protective equipment. Avoid contact with skin and eyes.
Environmental precautions :	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up :	Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Flush away residuals with plenty of water.

## **7. Handling and storage**

### **Handling**

Advice on safe handling :	Keep container tightly closed. Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion :	Normal measures for preventive fire protection

### **Storage**

Requirements for storage :	Keep only in the original container. Gives off hydrogen by reaction with base metals (zinc, aluminium). Suitable materials for containers: polyethylene, polypropylene.
Advice on common storage :	Incompatible with strong bases and oxidizing agents.
Further information on storage conditions :	Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost.
German storage class :	12: Non Combustible Liquids

## **8. Exposure controls / personal protection**

### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.


### **Personal protective equipment**

Hand protection :	The glove materials has to be impermeable and resistant to the product / the substance / the preparation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer
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to manufacturer. Protective gloves should be replaced at first signs of wear.

The following materials are suitable:

Material	Strenght of material	Break through time
Natural rubber	0,5 mm	>= 8h
Polychloroprene	0,5 mm	>= 8h
Nitrile rubber	0,35 mm	>= 8h
Butyl-rubber	0,5 mm	>= 8h
Fluorocarbon rubber	0,4 mm	>= 8h
Polyvinylchloride	0,5 mm	>= 8h

## 9. Physical and chemical properties

### Appearance

Form :	Liquid
Colour :	Colourless
Odour :	Odourless

### Safety data


Solidification point :	-6 – 2 °C
Thermal decomposition:	> 170 °C
Flash point :	not applicable
Explosive properties:	Product is not explosive.
Density:	1.22 g/cm <sup>3</sup> ; 20°C
Water solubility:	500 g/l ; 25°C ; soluble
pH:	2 ; 50 g/l ; 20°C

## 10. Stability and reactivity

Materials to avoid :	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products :	None known
Hazardous reactions :	None known
General advice :	No decomposition if stored and applied as directed.

## 11. Toxicological information

Ingestion :	LD50 rat. 11.700 mg/kg
Skin Absorption :	LD50 rabbit. > 5.000 mg/kg
Skin contact :	Prolonged skin contact may cause skin irritation.
Eye contact :	Irritating to eyes.
Sensitization :	No sensitizing effect known.

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## 12. Ecological information

### Elimination information (persistence and degradability)

Biodegradability : applies to anhydrous substance : 98% 2 days; Readily biodegradable.  
 Bioaccumulation : Does not bioaccumulate.

### Ecotoxicity effects

Toxicity to fish : applies to anhydrous substance: LC50 Leuciscus idus (golden orfe) 440 – 760 mg/l 96h  
 Toxicity to bacteria : applies to anhydrous substance: EC5 Pseudomonas putida > 10.000 mg/l

### Further information on ecology

Biochemical Oxygen Demand (BOD) : calculated on the pure substance: 526 mg/g 5 d  
 Chemical Oxygen Demand (COD) : calculated on the pure substance: 728 mg/g  
 Additional ecological information : Do not flush into surface water or sanitary sewer system.

## 13. Disposal considerations

Product : Dispose of in accordance with local regulations.  
 Packaging : Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

## 14. Transport information

ADR : Not dangerous goods  
 RID : Not dangerous goods  
 IMDG : Not dangerous goods

## 15. Regulatory information

### Labelling according to EC Directives

The product is classified and labelled in accordance with EC directives or respective national laws.




Xi Irritant

R-phrases) R36 Irritating to eyes.

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## 16. Other information

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

R36 Irritating to eyes.

### Further Informations

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.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

# Indicates updated section.