

## SAFETY DATA SHEET

### CITRIC ACID

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

**Product name** CITRIC ACID

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

**Identified uses** Oil well drilling fluid additive. pH modifier.

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

**Supplier** Rawpharma Biz Pvt Ltd  
1101-CITY CENTRE-2, BESIDE SUKAN  
MALL, SCIENCE CITY ROAD, SOLA  
Ahmedabad, Gujarat, 380060.

**Company telephone** 9879522397

**Email Id** [info@rawpharmabiz.com](mailto:info@rawpharmabiz.com)

#### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.

Human health Eye Irrit. 2 - H319

Environment Not classified.

Classification (1999/45/EEC) Xi;R36.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

##### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Warning

Hazard Statements

H319

Causes serious eye irritation.

Precautionary Statements

P337+313

If eye irritation persists: Get medical advice/attention.

Supplementary Precautionary Statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P264

Wash contaminated skin thoroughly after handling.

P305+351+338

IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

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

### 3.2. Mixtures

CITRIC ACID MONOHYDRATE		60- 100%
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### Composition Comments

The data shown is in accordance with the latest EC Directives.

## **SECTION 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

#### Inhalation

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

#### Ingestion

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Get medical attention if any discomfort continues.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

#### General information

The severity of the symptoms described will vary dependent of the concentration and the length of exposure. If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible. For further information, please refer to section 11.

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

Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

#### Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

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

#### Hazardous combustion products

Fire or high temperatures create: Irritating gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### Unusual Fire & Explosion Hazards

High concentrations of dust may form explosive mixture with air.

### 5.3. Advice for firefighters

### Special Fire Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

### Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not allow to enter drains, sewers, or watercourses.

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

Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

### 6.4. Reference to other sections

For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Store separated from: Alkalis. Oxidizing material.

### Storage Class

Chemical storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### Ingredient Comments

NUI = Nuisance dust, WEL TWA 4mg/m<sup>3</sup> Respirable Dust, 10 mg/m<sup>3</sup> Total Dust.

### 8.2. Exposure controls

### Protective equipment



### Process conditions

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering measures

Provide adequate general and local exhaust ventilation.

#### Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear mask supplied with: Dust filter P2 (for fine dust).

#### Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Butyl rubber. Polyvinyl chloride (PVC).

#### Eye protection

Wear approved safety goggles.

#### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

<u>Appearance</u>	Crystals or crystalline
<u>Color</u>	White.
<u>Odor</u>	Odorless.
<u>Solubility</u>	Soluble in water.
<u>Melting point (°C)</u>	153°C
<u>Relative density</u>	1.542g/cm <sup>3</sup> @ 20°C
<u>Bulk Density</u>	900 kg/m <sup>3</sup>
<u>pH-Value, Diluted Solution</u>	1.6 @ 100g/l
<u>Solubility Value (G/100G H<sub>2</sub>O@20°C)</u>	60
<u>Auto Ignition Temperature (°C)</u>	1010°C

#### 9.2. Other information

Not relevant

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Violent reaction with: Strong alkalis. Strong oxidizing agents.

#### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

Not known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

##### Materials To Avoid

Strong alkalis. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Fire or high temperatures create: Irritating gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

##### Toxic Dose 1 - LD 50

5040 mg/kg (oral mouse)

##### Toxic Dose 2 - LD 50

3000 mg/kg (oral rat)

##### Acute toxicity:

##### Acute Toxicity (Oral LD50)

> 7000 mg/kg Rabbit

##### ATE (Oral)

3000 mg/kg

##### Aspiration hazard:

Not anticipated to present an aspiration hazard based on chemical structure.

##### Inhalation

Dust may irritate respiratory system or lungs.

##### Ingestion

May irritate and cause stomach pain, vomiting and diarrhea.

##### Skin contact

Skin irritation is not anticipated when used normally.

##### Eye contact

Causes serious eye irritation. Particles in the eyes may cause irritation and smarting.

##### Route of entry

No route of entry noted.

##### Target Organs

No specific target organs noted

### **SECTION 12: ECOLOGICAL INFORMATION**

##### Ecotoxicity

Contact M-I SWACO's QHSE Department for ecological information at env@miswaco.slb.com.

#### 12.1. Toxicity

##### Acute Fish Toxicity

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l 440 - 760

#### 12.2. Persistence and degradability

##### Degradability

There are no data on the degradability of this product.

### 12.3. Bio accumulative potential

#### Bio accumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

#### Mobility:

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements. Waste Class

EWG-code: 06 01 06. 7134. Organic acids.

## SECTION 14: TRANSPORT INFORMATION

<u>General</u>	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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### 14.1. UN

#### number

Not

applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard

#### class(es)

Not applicable.

### 14.4. Packing

group Not

applicable.

### 14.5. Environmental hazards

#### Environmentally Hazardous

Substance/Marine Pollutant No.

### 14.6. Special precautions

for user Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable. Please contact MISDS@slb.com for info regarding transport in Bulk.

## SECTION 15: REGULATORY INFORMATION

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

#### Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations. Control of Substances Hazardous to Health Regulations 2002 (as amended) Workplace Exposure Limits EH40.

#### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### National Regulations

In accordance with Dutch Mining Regulation 9.2 and ARBO regulation Chapter 4.

#### Water hazard classification

WGK 1

### 15.2. Chemical Safety Assessment

#### International Chemical Inventories

Contact REACH@miswaco.slb.com for REACH information. Complies with the following national/regional chemical inventory requirements: Australia (AICS), Canada (DSL / NDSL), China (IECSC), Europe (EINECS / ELINCS), Japan (METI / ENCS), Korea (TCCL / ECL), New Zealand (NZIoC), Philippines (PICCS), United States (TSCA).

## SECTION 16: OTHER INFORMATION

### Information Sources

H319 Causes serious eye irritation.

### **Disclaimer**

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to the product or to the data herein is made or incurred hereunder.