

FICHA DE INFORMAÇÕES DE SEGURANÇA DE PRODUTO QUÍMICO

Nome do Produto: ACIDO CITRICO LIQUIDO

Revisão: 0

Data: 12/09/2016

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1 - Identificação do Produto e da Empresa

Nome do Produto: ACIDO CITRICO LIQUIDO

Número da FISPQ: 445

Comercializado por: Morais de Castro Comércio e Importação de Produtos Químicos Ltda.

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01.1-Principais Aplicações do Produto:

2 - Identificação de Perigos

Classification of the substance:

Causes serious eye irritation - Category 2A

Skin irritation - Category 3

Acute dermal toxicity - Category 5

Classification in accordance with:

Standard ABNT-NBR 14725-2:2009 - Issue 2:2010; Global Harmonization Standard (GHS), ONU.

Hazards not otherwise classified or not covered:

None.

GHS Label elements

Pictogramas:



Signal word:

WARNING

Hazard statement:

H313: It can be dangerous in contact with skin.

H316: Causes mild skin irritation.

H319: Causes serious eye irritation.

Precautionary statement (s):

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves / eye protection / face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing.

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3 - Composição e Informações sobre os ingredientes

Substances

Chemical name Citric Acid Anhydrous

Synonyms: 2 - Hydroxy - 1,2,3 propanetricarboxylic acid

CAS Nº: 77-92-9

CE Nº: 201 - 069 - 1

MOLECULAR WEIGHT: 192, 12 G/MOL

Formula: C₆H₈O₇ (HILL); (HOOCCH₂)₂ C (OH) COOH

Impurities wich contributes with hazards: None

4 - Primeiros Socorros

Inhalation:

Move person to fresh air and keep in a position comfortable for breathing. If not breathing, give oxygen. Give artificial respiration if the victim is not breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or physician. Take with you this SDS.

Skin contact:

Remove contaminated clothes and shoes. Wash with plenty of water to remove the material at least 20 minutes. Wash clothes before reuse. In case of skin irritation, get medical attention. Take with you this SDS.

Eye contact:

Rinse thoroughly with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or physician. Take with you this SDS.

Most important symptoms and effects:

Is irritating to the skin. Is irritating to the the eyes resulting in stinging, reddening and tearing. May be harmful if swallowed, adsorbed through skin or inhaled. Ingestion or absorption may cause nausea, vomiting and diarrhea. In high doses may cause mild irritation of the respiratory tract with coughing and sneezing.

Indication to any immediate medical attention:

Avoid contact with the product while helping the victim. If necessary, symptomatic treatment should include, above all, support measures to correct eletrolyte disturbances, metabolic, and respiratory care. In case of contact with the product do not rub the affected site.

5 - Combate a incêndios

xtinguishing media:

Suitable extinguishing media: Water, water apray, dry powder, foam, carbin dioxide (CO₂).

Extinguishing media which must not be used: Water jet. May cause explosive dust conditions

Special hazards arising:

The combustion of these product or its packaging can form irritating and toxic gases as carbon monoxide and dioxide carbon.

Advice for firefighters

Wear self contained breathing apparatus 9 SCBA) for fire fighting if necessary.

Containers and tanks involved in the fire should be cooled with water fog.

6 - Derrame/Vazamento

Personal precautions, protective equipment and emergency procedures.

Avoid ingestion and inhalation of the product and also the contact with eyes and skin. Evacuate personnel to safe areas. Wear rubber gloves or vinyl and safety glasses.

Environmental precautions

Isolate the scene. Prevent spillage. Do not allow the product enter water systems or sewage.

Cleaning Methods

When there is leakage, collect the spilled product for subsequent disposal and rinse the area with water.

7 - Manuseio/Armazem

Technical measures/precautions:

Precautions for safe handling Handle in a ventilated area or area with ventilation / exhaust system. Avoid dust and mists formations. Avoid exposure to product. Avoid contact with incompatible materials. Use personal protective equipment as described in Section 8.

Hygune measures: Wash your hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet. Clothes contaminated shold be changed and washed before reuse. Remove clothing and protective equipment

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contaminated before entering areas.

Conditions for safe storage, including any incompatibilities

Fire and explosion prevention: It is not expected that the product presents a danger of fire or explosion.

Appropriate conditions: Store in a dry well-ventilated place and away from sunlight. Keep container closed. Keep on pallets. Keep store at room temperature not exceeding 35°C. Keep away materials incompatible. It is not necessary the addition of stabilizers and antioxidants to ensure product durability.

Packaging materials: Multiwall paper bag with internal liner of HPDE. Bulk Bag 500 and 1000 kg in polypropylene

8 - Exposição/Proteção individual

Control Parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values

Biological Indicators

No data available

Appropriate engineering controls

Use local exhaust ventilation. These measures help in reducing exposure to product. Keep the atmospheric concentrations of the constituents of the product, below the recommended exposure limits.

Personal protective equipment

Eye / Face protection

Safety glasses

Skin protection

Rubber or vinyl goggles. Appropriate clothes and safety shoes.

Respiratory protection

In case of leakage, where exposure is great, it recommends the use of, respiratory protection, mask with half face filter against dusts and mists

Thermal Hazards

Not applicable.

9 - Propriedades Físicas e Químicas

Appearance: Clear liquid

Odor: Light sweet odor

pH: Acid

Melting point/freezing point: Not available

Initial boiling point and boiling range: 104°C

Flash Point: Not applicable not flammable product.

Auto temperature - Ignition: Not available .

Flammability: Note applicable

Lower Explosive Limit : Not Available

Upper

Explosive Limit: Not Available

vapor pressure: 16 mmHg at 20 ° C

Vapor density : 0.62 (Air = 1)

Density (20 ° C) 1.24 25 ° C

Solubility : Completely soluble in water .

Viscosity: Not Available

Evaporation Rate : Not Available

Partition coefficient - n- octanol / water: Not Available

Decomposition temperature : Not Available

10 - Estabilidade/Reatividade

Stability and reactivity: Stable under normal conditions of temperature and pressure

Possibility of hazardous reactions: No data available.

Conditions to avoid:

High temperatures, humidity and contact with incompatible materials **Incompatible materials:** Oxidizing agents, Bases, Reducing agents.

Hazardous decomposition products:

Carbon oxides.

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11 - Informações Toxicológicas

Acute toxicity:

Product not classified as acute toxic by oral and dermal route. It is not expected that the product has acute toxicity by inhalation

DL 50 (oral, rat): > 5000,0 mg/kg

DL 50(dermal, rat): > 2000,0 mg/kg

Skin corrosion/irritation:

Mild skin irritation in rabbit (test 404, OECD)

Serious eye damage/eye irritation:

Irritation to eyes with stinging, reddening and tearing.

Irritation eyes in rabbits: (test guideline 405, OECD)

Respiratory or skin sensitisation:

It's not expected that the product has germ cell mutagenicity.

Studies in rats were negative for reproductive toxicity

Specific target organ toxicity - single exposure

May be harmful if swallowed, adsorbed through skin or inhaled. Ingestion or absorption may cause nausea, vomiting and diarrhea. In high doses can cause mild irritation of the respiratory tract coughing and sneezing

Specific target organ toxicity - repeated exposure

It's not expected that the product present specific target organ toxicity - repeated exposure

Aspiration hazard:

It's not expected that the product present aspiration hazard

12 - Informações ecológicas

Environmental effects, behavior and impacts of product

Toxicity:

Toxic only in large concentrations, and their effects are readily broken in the presence of a large volume of water.

CE50 (crustaceans, 48h): > 100,0 mg/L

Persistence and degradability:

The product does not have persistence and is considered readily biodegradable.

Degradability rate: 97% in 28 days.

Bioaccumulative potential:

It has a low potential bioaccumulation in aquatic organisms.

BCF:3.2

Log Kow: - 1.64

Mobility in soil:

It is expected high mobility in soil.

Koc:3.1

Others adverse effects

No data available

13 - Tratamento/Disposição

Waste treatment methods

Product

Cover with soda ash. Can be collected in plastics containers. Waste disposal should be in accordance with existing federal, state and local environmental control regulations: Lei nº 12.305, de 2 de agosto de 2010 (Política nacional de Resíduos Sólidos).

Product residues

Keep the product in its original packing. They should be washed with large volumes of water. Disposal should be in accordance with the established for the product.

Contaminated packaging

Do not reuse empty containers. These may contain residues of the product and should be kept closed and forwarded to proper disposal as required for the product.

14 - Informações sobre transporte

International and National Regulations:

Land transportation:

Resolution nº420, February 12, 2004 from Agência nacional de Transporte terrestre (ANTT) approves Instructions Complementary to the Regulation of Land Transport of Dangerous Goods and its modifications

Water carriage:

DPC - Diretoria de Portos e Costas (Transporte em águas brasileiras)

Normas de Autoridade Marítima (NORMAM)

NORMAM 01/DPC: Embarcações Empregadas na Navegação de Mar Aberto

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NORMAM 02/DPC: Embarcações Empregadas na Navegação Interior
IMO - " International Maritime Organization" (Organização Marítima Internacional)
International Maritime Dangerous Goods Code (IMDG Code)

Air service:

ANAC - Agência nacional de Aviação Civil - Resolução nº 129 de 08 de dezembro de 2009
RBAC Nº175 - (REGULAMENTO BRASILEIRO DA AVIAÇÃO CIVIL) - TRANSPORTE DE ARTIGOS PERIGOSOS EM
AERONAVES CIVIS

IS Nº 175-001 - INSTRUÇÃO SUPLEMENTAR - IS

ICAO - " International Civil Aviation Organization" (Organização da Aviação Civil Internacional) - Doc 9284-NA/905

IATA - "International Air Transport Association" (Associação Internacional de Transporte Aéreo)

Dangerous Goods Regulation (DGR)

ONU Classification number:

Nor classified as dangerous for transport

15 - Regulamentações

Decreto Feeral nº 2.657, de 3 de julho de 1998;

Norma ABNT-NBR 14725:2014;

Portaria nº 229, de 24 de maio de 2011 - Altera a Norma Regulamentadora nº 26.

16 - Outras Informações

Others classifications of the substance:

The information in this SDS is collected from reliable sources. However, the information is provided without any warranty, expressed or implied. The conditions or methods of handling, storage, use or disposal of the product might be beyond our control and knowledge. For the avoidance of doubt, we shall in no such circumstances be under any liability in respect of loss, damage or expenses arising from handling, storage, use or disposal of the product by your company and/or your subcontractors. This FISPQ is only applicable for the product mentioned in the identification chapter and title. If the product is used as a component in another product, this FISPQ may not be applicable to the composite material. SDS was created in, July 2015.

Subtitles and Abbreviations:

BCF - Bioconcentration Factor

CAS - Chemical Abstracts Service

CE - European Commission

CE50 - Effective concentration 50%

DL50 - Lethal Dose 50%

Koc - Organic Carbon Absorption (Coefficient).

LEI - Lower Flammability

LES - Upper Flammability

OECD - Organisation for Economic Co-operation and Development

ONU - United Nations

SCBA - Self-contained Breathing Apparatus