

MATERIAL SAFETY DATA SHEET

Product name: **CITRIC ACID ANHYDROUS**

Date: 2022/8/12
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT NAME: CITRIC ACID ANHYDROUS
SUPPLIER: TTCA CO., LTD.
TEL : +86-536-2262229
FAX: +86-536-4221500

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT CONTENT MIN 99.5%
CHEMICAL NAME OF THE SUBSTANCE: $C_6H_8O_7$
CHEMICAL NAME: 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID
SYNONYMS: CITRIC ACID
EINECS-NR: 201-069-1
CAS N°: 77-92-9

3. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS IRRITATING TO EYES

4. FIRST AID MEASURES

GENERAL ADVICE MAJOR EFFECTS OF EXPOSURE CONSULT A PHYSICIAN, IRRITATING TO EYES AND SKIN
SKIN CONTACT WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER, IF SKIN IRRITATION PERSISTS, CALL A PHYSICIAN.
EYE CONTACT RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 10 MINUTES. IF EYE IRRITATION PERSISTS, CALL A SPECIALIST.
INGESTION DRINK PLENTY OF WATER, DO NOT INDUCE VOMITING, CALL A PHYSICIAN IF NECESSARY.
PROTECTION OF FIRST-AIDERS USE PERSONAL PROTECTIVE EQUIPMENT

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA WATER, WATER SPRAY, DRY POWDER, FOAM,
EXTINGUISHING MEDIA WHICH MUST NOT NONE

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BE USED FOR SAFETY REASONS

HAZARDOUS DECOMPOSITION
PRODUCTS

DEVELOPMENT OF HAZARDOUS COMBUSTION GASES
OR VAPORS POSSIBLE IN THE EVENT OF FIRE

SPECIAL PROTECTIVE
EQUIPMENT FOR FIREFIGHTERS

USE PERSONAL PROTECTIVE EQUIPMENT

SPECIFIC METHOD

STANDARD PROCEDURE FOR CHEMICAL FIRE

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

USE PERSONAL PROTECTIVE EQUIPMENT, AVOID
CONTACT WITH SKIN AND EYES, AVOID
GENERATION OF DUST, DO NOT INHALE DUSTS

ENVIRONMENTAL PRECAUTIONS
REQUIRED

DO NOT ALLOW TO ENTER SEWERAGE SYSTEM ,
TAKE UP DRY

METHODS FOR CLEANING UP

FLUSH AWAY TRACES WITH WATER, SWEEP UP AND
SHOVEL AFTER CLEANING

7. HANDLING AND STORAGE

HANDLING:

TECHNICAL MEASURES /PRECAUTIONS
SAFE HANDLING ADVICE

AVOID DUST FORMATION, TAKE PRECAUTORY
MEASURES AGAINST STATIC DISCHARGES
USE PERSONAL PROTECTIVE EQUIPMENT

STORAGE:

TECHNICAL MEASURES / STORAGE
CONDITIONS

KEEP TIGHTLY CLOSED IN A DRY AND COOL PLACE
STORE PROTECTED FROM SOLVENTS

INCOMPATIBLE PRODUCTS

STRONG OXIDIZING AGENTS, STRONG BASES

PACKING MATERIAL

POLYETHYLENE COATED PAPER BAGS OR
POLYETHYLENE/PROPYLENE BIG BAGS

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

ENSURE ADEQUATE VENTILATION, ESPECIALLY
IN CONFINED AREAS

EXPOSURE LIMIT

NO SPECIAL PRECAUTIONS REQUIRED

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PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION	EFFECTIVE DUST MASK
HAND PROTECTION	GLOVES
EYE PROTECTION	SAFETY GLASSES
SKIN AND BODY	LIGHTWEIGHT PROTECTIVE CLOTHING

PROTECTION HYGIENE MEASURES	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE
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9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	POWDER / CRYSTALLINE
COLOUR	WHITE / COLOURLESS
ODOUR	NONE
PH SOLUTION (5%, 25°C)	1,6
MELTING POINT / RANGE	153 °C
DECOMPOSITION TEMPERATURE	>170°C
FLASH POINT	NOT APPLICABLE
RELATIVE DENSITY	1,665 g/cm ³
AUTOIGNITION TEMPERATURE	345°C
SOLUBILITY:	
WATER SOLUBILITY (25°C)	1630 g/l
SOLUBILITY IN OTHER SOLVENTS:	
ETHANOL (25°C)	38,3 % (W/W)

10. STABILITY AND REACTIVITY

STABILITY	STABLE AT NORMAL CONDITIONS
CONDITIONS TO AVOID	AVOID DUST FOUNDATIONS, TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE, STRONG HEATING
SUBSTANCES TO AVOID	METALS, OXIDIZING AGENTS, BASES, REDUCING AGENTS

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	LD ₅₀ (oral, rat): 3000 mg/Kg (anhydrous substance)
SUBACUTE TOXICITY	NONE

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HUMAN EXPERIENCE

HEALTH INJURES ARE NOT KNOWN UNDER NORMAL USE, THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS

12. ECOLOGICAL INFORMATION

MOBILITY

COMPLETELY SOLUBLE

PERSISTENCE AND DEGRADABILITY:

CHEMICAL OXYGEN DEMAND(COD) 685 mg O₂/G

BIOCHEMICAL OXYGEN DEMAND

WITHIN 5 DAYS (BOD5) 481 mg O₂/G

READILY BIODEGRADABLE

98% AFTER 2 DAYS (OECD 302B)

BIOACCUMULATION

ECOSYSTEM EFFECTS

NONE

TOXICITY TO FISH (LC₅₀/96H/gold fish) 440-706 mg/l (anhydrous substance)
>10.000 mg/l (anhydrous substance)

TOXICITY TO BACTERIA

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS

WHERE POSSIBLE RECYCLING IS PREFERRED TO DISPOSAL OR INCINERATION CAN BE LANDFILLED OR INCINERATED, WHEN IN COMPLIANCE WITH THE ENVIRONMENTAL PROTECTION (DUTY OF CARE) REGULATION 1991.

CONTAMINATED PACKING

EMPTY CONTAINERS SHOULD BE TRANSPORTED DELIVERED USING A REGISTERED WASTE CARRIER FOR LOCAL RECYCLING OR WASTE DISPOSAL.

14. TRANSPORT INFORMATION

IMO/GMO: NOT REGULATED.

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

15. REGULATORY INFORMATION

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THE PRODUCT IS CLASSIFIED AND LABELLED IN ACCORDANCE WITH EU DIRECTIVES (88/379/EC) OR RESPECTIVE LAWS:

SYMBOL(S) :



Xi:-IRRITANT

R-36 IRRITATING TO EYES

S-26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE

R-PHRASES:

S-PHRASES:

WATER HAZARD CLASS :

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16. OTHER INFORMATION FOOD ADDITIVE

E330 USA FDA GRAS STATUS

山东柠檬生化有限公司
TTCA Co., Ltd.
刘江