

MATERIAL SAFETY DATA SHEET

Product name: **CITRIC ACID ANHYDROUS**

Date: 2018/01/29
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT NAME: CITRIC ACID ANNYDROUS
SUPPLIER: TTCA CO., LTD.
TEL : +86-536-4222798/4222799
FAX: +86-536-4221500

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME OF THE SUBSTANCE: $C_6H_8O_7$
CHEMICAL NAME: 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC
SYNONYMS: ACID
EINECS-NR: CITRIC ACID
CAS N°: 201-069-1
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

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SUITABLE EXTINGUISHING MEDIA	WATER , WATER SPRAY, DRY POWDER, FOAM,
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS	NONE
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

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POLYEGHYLENE/PROPYLENE BIG BAGS

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES ENSURE ADEQUATE VENTILATION, ESPECIALLY
IN CONFINED AREAS

EXPOSURE LIMIT NO SPECIAL PRECAUTIONS REQUIRED

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

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/cm³

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

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<p>SUBSTANCES TO AVOID</p>	<p>PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE, STRONG HEATING</p> <p>METALS, OXIDIZING AGENTS, BASES, REDUCING AGENTS</p>
<p>11. TOXICOLOGICAL INFORMATION</p>	
<p>ACUTE TOXICITY</p> <p>SUBACUTE TOXICITY</p> <p>HUMAN EXPERIENCE</p>	<p>LD₅₀(oral, rat): 3000 mg/Kg (anhydrous substance)</p> <p>NONE</p> <p>HEALTH INJURES ARE NOT KNOW UNDER NORMAL USE, THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS</p>
<p>12. ECOLOGICAL INFORMATION</p>	
<p>MOBILITY</p> <p>PERSISTENCE AND DEGRADABILITY:</p> <p>CHEMICAL OXYGEN DEMAND(COD)</p> <p>BIOCHEMICAL OXYGEN DEMAND WITHIN 5 DAYS (BOD5)</p> <p>READILY BIODEGRADABLE</p> <p>BIOACCUMULATION</p> <p>ECOSYSTEM EFFECTS</p> <p>TOXICITY TO FISH (LC₅₀/96H/gold fish)</p> <p>TOXICITY TO BACTERIA</p>	<p>COMPLETELY SOLUBLE</p> <p>685 mg O₂/G</p> <p>481 mg O₂/G</p> <p>98% AFTER 2 DAYS(OECD 302B)</p> <p>NONE</p> <p>440-706 mg/l (anhydrous substance)</p> <p>>10.000 mg/l (anhydrous substance)</p>
<p>13. DISPOSAL CONSIDERATIONS</p>	
<p>WASTE FROM RESIDUES / UNUSED WHERE POSSIBLE RECYCLING IS PREFERRED</p>	

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PRODUCTS

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

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

15. REGULATORY INFORMATION

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. *
刘海洋