



QINGDAO EASTCHEM INC

No.61 Haier Road, Laoshan District, Qingdao City, 266061, China

Tel: 86-532-80927566 Fax: 86-532-80996816

E-mail: info@eastchem.cn qdeastchem@gmail.com

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT NAME: CITRIC ACID ANHYDROUS
SUPPLIER: QINGDAO EASTCHEM INC.
ADDRESS: NO.61, HAIER ROAD, QINGDAO,266061,CHINA
TEL : +86-532-80927566
FAX: +86-532-80996816

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME OF THE SUBSTANCE: $C_6H_8O_7$
CHEMICAL NAME: 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID
SYNONYMS: CITRIC ACID
CAS NO: 77-92-9

3. HAZARDS IDENTIFICATION

INHALATION:
INHALATION OF LARGE AMOUNTS OF DUST MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT.

INGESTION:
EXTREMELY LARGE ORAL DOSAGES MAY PRODUCE GASTROINTESTINAL DISTURBANCES.

MOST IMPORTANT HAZARDS

SKIN CONTACT:
POSSIBLE IRRITATION ON PROLONGED CONTACT WITH MOIST OR SENSITIVE AREAS OF THE SKIN.

EYE CONTACT:
NO ADVERSE EFFECTS EXPECTED BUT DUST MAY CAUSE MECHANICAL IRRITATION. CHRONIC

EXPOSURE:
NO INFORMATION FOUND. AGGRAVATION OF PRE-EXISTING CONDITIONS:
NO INFORMATION FOUND.

4. FIRST AID MEASURES

GENERAL ADVICE MAJOR EFFECTS OF EXPOSURE CONSULT A PHYSICIAN, IRRITATING TO EYES AND SKIN

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION FOR ANY BREATHING DIFFICULTY.

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 OR MILK WHEN CLEAR-HEADED, DO NOT INGEST ANYTHING WHEN NOT CLEAR-HEADED, CALL A PHYSICIAN IF NECESSARY.

MOST IMPORTANT SYMPTOM

PROTECTION OF FIRST-AIDERS

NO SPECIAL INFORMATION FOUND.

CLUE TO PHYSICIAN

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

WATER, DRY POWDER, CHEMICAL FOAM, CARBON DIOXIDE

SPECIAL HAZARD

FINE DUST DISPERSED IN AIR IN SUFFICIENT CONCENTRATIONS, AND IN THE PRESENCE OF AN IGNITION SOURCE IS A POTENTIAL DUST EXPLOSION HAZARD.

SPECIAL EXTINGUISHING PROCEDURE

NONE

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

USE PERSONAL PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS REQUIRED

AVOID GENERATION OF DUST AND KEEP BREEZY

METHODS FOR CLEANING UP

FLUSH AWAY TRACES WITH WATER, SWEEP UP AND SHOVEL AFTER CLEANING, OR NEUTRALIZE WITH CALCAREOUSNESS.

7. HANDLING AND STORAGE

HANDLING:
TECHNICAL MEASURES / PRECAUTIONS
SAFE HANDLING ADVICE

KEEP VENTILATED TO AVOID DUST, AVOID TO CONTACT WITH EYES AND SKIN, AVOID INHALATION AND INGESTION

STORAGE:
TECHNICAL MEASURES / STORAGE
CONDITIONS

KEEP TIGHTLY CLOSED IN A DRY, COOL AND VENTILATED PLACE
STORE PROTECTED FROM INCOMPATIBLE SUBSTANCES

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

SET EYEWASHER OR SHOWER, ENSURE ADEQUATE VENTILATION TO KEEP LOW CONSISTENCY IN AIR.

EXPOSURE LIMIT

NO SPECIAL PRECAUTIONS REQUIRED

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION
HAND PROTECTION

EFFECTIVE DUST MASK
GLOVES

EYE PROTECTION
SKIN AND BODY PROTECTION
PROTECTION HYGIENE MEASURES

SAFETY GLASSES
LIGHTWEIGHT PROTECTIVE CLOTHING
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL
HYGIENE AND SAFETY PRACTICE

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE	SOLID
FORM	CRYSTAL
COLOUR	WHITE / COLOURLESS
ODOUR	ODOURLESS
PH SOLUTION(5%, 25° C)	2.2 (0.1N WATER SOLUTION)
MELTING POINT / RANGE	153 °C
DECOMPOSITION TEMPERATURE	>170 °C
BOILING POINT	-----
RELATIVE DENSITY	1.665
AUTOIGNITION TEMPERATURE	1010 °C
SOLUBILITY (25° C)	60g/100ml.OF WATER

10. STABILITY AND REACTIVITY

STABILITY	STABLE AT NORMAL CONDITIONS
HARZARD IN SPECIAL CONDITION	NONE
CONDITIONS TO AVOID	HEAT, FLAME, IGNITION SOURCES, DUST AND INCOMPATIBLES.
SUBSTANCES TO AVOID	METAL NITROUS COMPOUNDS,COMPOSE WITH COPPER,ZINC,ALUMINIUM.
HAZARDOUS DECOMPOSITION PRODUCTS	CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	-----
SUBACUTE TOXICITY OR EXTENDED TOXICITY	LD ₅₀ 3g/Kg
PARTIAL EFFECT	-----
CAUSE OF ALLERGY	-----
SPECIAL EFFECT	-----

12. ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENT EFFECT	-----
------------------------------	-------

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS	RECYCLING IS PREFERRED TO DISPOSAL OR INCINERATION CAN BE LANDFILLED OR INCINERATED ACCORDING TO LOCAL RECYCLE OR WASTE DISPOSAL.
---------------------------------------	---

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.
KEEP BAG WELL-CLOSED ,AND PUT IN A LIGHT-PROOF,DRY AND COOL PLACE,KEEP AWAY FROM HOT SOURCE.

15. REGULATORY INFORMATION

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

SYMBOL(S):



R-PHRASES:

S-PHRASES:

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

WATER HAZARD CLASS : 0

16. OTHER INFORMATION

DISCLAIMER:

QINGDAO EASTCHEM INC PROVIDES THE INFORMATION CONTAINED HEREIN IN GOOD FAITH BUT MAKES NO REPRESENTATION AS TO ITS COMPREHENSIVENESS OR ACCURACY. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT. INDIVIDUALS RECEIVING THE INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. QINGDAO EASTCHEM INC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO

THE INFORMATION SET FORTH HEREIN OR THE PRODUCT