

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Citric acid monohydrate

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

Company Name: Dalian Hefu Trading Co., Ltd.

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Recommended use: Oxidizing agents polymerization initiators

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
5949-29-1	CITRIC ACID MONOHYDRATE	99.5-101%

SECTION 3 - HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS

IRRITANT

RISK OF SERIOUS DAMAGE TO EYES.

IRRITATING TO RESPIRATORY SYSTEM AND SKIN.

POSSIBLE SENSITIZER.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4 - FIRST AID MEASURES

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

SAFETY DATA SHEET

WASHCONTAMINATEDCLOTHING BEFORE REUSE.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

WA TER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHINGAPPARATUSAND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

THIS MATERIAL,LIKE MOST MATERIALSIN POWDER FORM, IS CAPABLE OF CREATINGA DUST EXPLO

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6 - ACCIDENTALN A RELEASE MEASURES

EVACUATEAREA.

WEAR SELF-CONTAINED BREATHINGAPPARATUS,RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOIDRAISING DUST.

VENTILATEAREA AND WASHSPILL SITE AFTER MATERIALPICKUP IS COMPLETE.

SECTION 7 - HANDLING and STORAGE

REFER TO SECTION 8.

SECTION 8 - EXPOSURE CONTROLS, PERSONALO A PROTECTION

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR,CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

USE ONLYIN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOIDPROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

KEEP TIGHTLY CLOSED.

SAFETY DATA SHEET

STORE IN A COOL DRY PLACE.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
WHITE CRYSTALS

SECTION 10- STABILITY AND REACTIVITY

INCOMPATIBILITIES
OXIDIZING AGENTS
BASES
REDUCING AGENTS
NITRATES
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11- TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAYBE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
MATERIALS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN
SENSITIVE INDIVIDUALS.

EXPOSURE CAN CAUSE:

VOMITING

DIARRHEA

DAMAGE TO TOOTH ENAMEL

DERMATITIS

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: GE7810000

CITRIC ACID, MONOHYDRATE

IRRITATION DATA

EYE-RBT 5 MG/30S RINSE MLD

TXCYAC 23,281,1982

TOXICITY DATA

IPR-RAT LD50: 375 MG/KG

NTIS** AD-A121-876

SAFETY DATA SHEET

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12- ECOLOGICAL INFORMATION

Environmental Fate:
DATA NOT YET AVAILABLE.

SECTION 13- DISPOSAL CONSIDERATION

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14- TRANSPORT INFORMATION

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15- REGULATORY INFORMATION

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

IRRITANT

R 41

RISK OF SERIOUS DAMAGE TO EYES.

R 37/38

IRRITATING TO RESPIRATORY SYSTEM AND SKIN.

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOES 1983: HZD X3648; NIS 11; TNF 715; NOS 15; TNE 17300; TFE 9926

SECTION 16- DISCLAIMER

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SAFETY DATA SHEET

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SAFETY DATA SHEET

