1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING	
PRODUCT NAME: SUPPLIER:	CITRIC ACID ANHYDROUS NIKI CHEMIE LTD.
2. COMPOSITION/INFORMATION ON INGREDIENTS	
CHEMICAL NAME OF THE SUBSTANCE: CHEMICAL NAME: SYNONYMS: CAS NO:	$C_6H_8O_7$ 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID CITRIC ACID 77-92-9
3. HAZARDS IDENTIFICATION	
MOST IMPORTANT HAZARDS	INHALATION: INHALATION OF LARGE AMOUNTS OF DUST MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. INGESTION: EXTREMELY LARGE ORAL DOSAGES MAY PRODUCE GASTROINTESTINAL DISTURBANCES. 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 ANYTING 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 EXTINGUISHINGN 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 EYE PROTECTION SKIN AND BODY PROTECTION PROTECTION HYGIENE MEASURES	EFFECTIVE DUST MASK GLOVES SAFETY GLASSES LIGHTWEIGHT PROTECTIVE CLOTHING HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE
9. PHYSICAL AND CHEMICAL PROPERTIES	
STATE FORM COLOUR ODOUR PH SOLUTION(5%, 25° C) MELTING POINT / RANGE DECOMPOSITION TEMPERATURE BOILING POINT RELATIVE DENSITY	SOLID CRYSTAL WHITE / COLOURLESS ODOURLESS 2.2 (0.1N WATER SOLUTION) 153 ºC >170 ºC ———— 1.665

AUTOIGNITION TEMPERATURE SOLUBILITY (25° C)	1010 ºC 60g/100ml.OF WATER
10. STABILITY AND REACTIVITY	
STABILITY HARZARD IN SPECIAL CONDITION CONDITIONS TO AVOID SUBSTANCES TO AVOID HAZARDOUS DECOMPOSITION PRODUCTS	STABLE AT NORMAL CONDITIONS NONE HEAT, FLAME, IGNITION SOURCES, DUST AND INCOMPATIBLES. METAL NITROUS COMPOUNDS,COMPOSE WITH COPPER,ZINC,ALUMINIUM. CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.
11. TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY SUBACUTE TOXICITY OR EXTENDED TOXICITY PARTIAL EFFECT CAUSE OF ALLERGY SPECIAL EFFECT	———— LD_{50} 3g/Kg ———— ———— ————
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: WATER HAZARD CLASS :	 Xi:-IRRITANT R-36 IRRITATING TO EYES S-26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIALTELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE 0
16. OTHER INFORMATION DISCLAIMER: NIKI CHEMIE LTD 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. SHANDONG TTCA BIOCHEMISTRY CO.,LTD 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.	