

J.T.BAKER INC. 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865  
M A T E R I A L   S A F E T Y   D A T A   S H E E T  
24-HOUR EMERGENCY TELEPHONE -- (908) 859-2151  
CHEMTREC # (800) 424-9300 -- NATIONAL RESPONSE CENTER # (800) 424-8802

660 -12

NITRIC ACID

PO 84991

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EFFECTIVE: 09/15/95

ISSUED: 10/10/95

MALLINCKRODT BAKER, INC., 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: NITRIC ACID  
COMMON SYNONYMS: HYDROGEN NITRATE; AZOTIC ACID  
CHEMICAL FAMILY: INORGANIC ACIDS  
FORMULA:  $\text{HNO}_3$   
FORMULA WT.: 63.01  
CAS NO.: 7697-37-2  
NIOSH/RTECS NO.: QU5775000  
PRODUCT USE: LABORATORY REAGENT  
PRODUCT CODES: 9604, 9597, 5113, 4801, 5555, 9598, 6901, 9600, 9601, 9602, 9605, 9616  
5801, 9607, 9606, 5371

PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* SYSTEM

HEALTH	-	3	SEVERE (POISON)
FLAMMABILITY	-	0	NONE
REACTIVITY	-	3	SEVERE (OXIDIZER)
CONTACT	-	4	EXTREME (CORROSIVE)

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

U.S. PRECAUTIONARY LABELING

POISON DANGER

HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. LIQUID AND VAPOR CAUSE SEVERE BURNS. MAY BE FATAL IF SWALLOWED OR INHALED. STRONG OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIALS, FLAMMABLE MATERIALS, OR POWDERED METALS CAN CAUSE FIRE OR EXPLOSION. SPILLAGE MAY CAUSE FIRE OR LIBERATE DANGEROUS GAS. KEEP FROM CONTACT WITH CLOTHING AND OTHER COMBUSTIBLE MATERIALS. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE WATER SPRAY. IN CASE OF SPILL, NEUTRALIZE WITH SODA ASH OR LIME.

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## PRECAUTIONARY LABELING (CONTINUED)

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## INTERNATIONAL LABELING

CAUSES SEVERE BURNS.

KEEP OUT OF REACH OF CHILDREN. DO NOT BREATHE VAPOR. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

SAF-T-DATA\* STORAGE COLOR CODE: YELLOW (REACTIVE)

## =====

## SECTION II - COMPONENTS

COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL	ACGIH/TLV
NITRIC ACID	7697-37-2	65-70	2 PPM	2 PPM
WATER	7732-18-5	29-35	N/E	N/E

## =====

## SECTION III - PHYSICAL DATA

BOILING POINT: 121 C (249 F)  
(AT 760 MM HG)

VAPOR PRESSURE (MMHG): 9  
(20 C)

MELTING POINT: -42 C (-43 F)  
(AT 760 MM HG)

VAPOR DENSITY (AIR=1): N/A

SPECIFIC GRAVITY: 1.41  
(H2O=1)

EVAPORATION RATE: N/A

SOLUBILITY(H2O): COMPLETE (100%)

% VOLATILES BY VOLUME: 100  
(21 C)

PH: 1.0 (0.1M SOLUTION)

ODOR THRESHOLD (P.P.M.): 0.27

PHYSICAL STATE: LIQUID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

APPEARANCE &amp; ODOR: CLEAR, COLORLESS LIQUID. SUFFOCATING ODOR.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (CLOSED CUP): N/A

NFPA 704M RATING: 3-0-0 OXY

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS:    UPPER - N/A                      LOWER - N/A

FIRE EXTINGUISHING MEDIA

USE WATER, DRY CHEMICAL, OR SODA ASH.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE EXPOSED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL; DO NOT GET WATER INSIDE CONTAINERS.

UNUSUAL FIRE & EXPLOSION HAZARDS

STRONG OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIALS, FLAMMABLE MATERIALS, OR POWDERED METALS CAN CAUSE FIRE OR EXPLOSION. REACTS WITH MOST METALS TO PRODUCE HYDROGEN GAS, WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR. A VIOLENT EXOTHERMIC REACTION OCCURS WITH WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS.

TOXIC GASES PRODUCED

OXIDES OF NITROGEN, HYDROGEN

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT

NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE

NONE IDENTIFIED.

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SECTION V - HEALTH HAZARD DATA

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THRESHOLD LIMIT VALUE (TLV/TWA): 5.2 MG/M3            (2 PPM)

SHORT-TERM EXPOSURE LIMIT (STEL): 10 MG/M3            (4 PPM)

PERMISSIBLE EXPOSURE LIMIT (PEL): 5 MG/M3            (2 PPM)

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## SECTION V - HEALTH HAZARD DATA (CONTINUED)

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## TOXICITY OF COMPONENTS

INHALATION-1HR RAT LC50 FOR NITRIC ACID	2500 PPM
UNREPORTED ROUTE; MAN; LDLO NITRIC ACID	110 MG/KG
ORAL HUMAN TDLO NITRIC ACID	430 MG/KG
INTRAPERITONEAL MOUSE LD50 FOR WATER	190 G/KG
INTRAVENOUS MOUSE LD50 FOR WATER	25 G/KG
CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO	

CARCINOGENICITY  
NONE IDENTIFIED.REPRODUCTIVE EFFECTS  
NONE IDENTIFIED.

## EFFECTS OF OVEREXPOSURE

INHALATION: SEVERE IRRITATION OR BURNS OF RESPIRATORY SYSTEM,  
COUGHING, DIFFICULT BREATHING, CHEST PAINS, PULMONARY  
EDEMA, LUNG INFLAMMATION, UNCONSCIOUSNESS, AND MAY BE  
FATAL.

SKIN CONTACT: SEVERE IRRITATION OR BURNS

EYE CONTACT: SEVERE IRRITATION OR BURNS

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: NAUSEA, VOMITING, SEVERE BURNS, ULCERATION - MOUTH,  
THROAT, STOMACH, AND MAY BE FATAL.

CHRONIC EFFECTS: DAMAGE TO LUNGS, TEETH

## TARGET ORGANS

EYES, SKIN, MUCOUS MEMBRANES, RESPIRATORY SYSTEM, LUNGS, TEETH, GI TRACT

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

DAMAGED SKIN, EYE DISORDERS, CARDIOPULMONARY DISEASE, LUNG DISEASE

## PRIMARY ROUTES OF ENTRY

INHALATION, INGESTION, EYE CONTACT, SKIN CONTACT

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## SECTION V - HEALTH HAZARD DATA (CONTINUED)

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## EMERGENCY AND FIRST AID PROCEDURES

INGESTION: CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER, MILK, OR MILK OF MAGNESIA.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. PROMPT ACTION IS ESSENTIAL.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE RE-USE.

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

## SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: YES CHRONIC: YES FLAMMABILITY: NO PRESSURE: NO REACTIVITY: YES

EXTREMELY HAZARDOUS SUBSTANCE: YES CONTAINS NITRIC ACID (RQ = 1,000 LBS, TPQ = 1,000 LBS)

CERCLA HAZARDOUS SUBSTANCE: YES CONTAINS NITRIC ACID (RQ = 1000 LBS)

SARA 313 TOXIC CHEMICALS: YES CONTAINS NITRIC ACID

GENERIC CLASS: GENERIC CLASS REMOVED FROM CFR: 7/1/91

TSCA INVENTORY: YES

## =====

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, LIGHT, MOISTURE

INCOMPATIBLES: STRONG BASES, CARBONATES, SULFIDES, CYANIDES, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, STRONG REDUCING AGENTS, MOST COMMON METALS, POWDERED METALS, CARBIDES, AMMONIUM HYDROXIDE, WATER, ALCOHOLS

DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN, HYDROGEN

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SECTION VII - SPILL & DISPOSAL PROCEDURES

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STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.  
STOP LEAK IF YOU CAN DO SO WITHOUT RISK. VENTILATE AREA. NEUTRALIZE  
SPILL WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL  
INTO CLEAN, DRY CONTAINER AND COVER; REMOVE FROM AREA. FLUSH SPILL AREA  
WITH WATER.  
PREVENT RUN-OFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.  
KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL.

J. T. BAKER NEUTRASORB(R) OR TEAM(R) 'LOW NA+' ACID NEUTRALIZERS ARE  
FOR SPILLS OF THIS PRODUCT.

DISPOSAL PROCEDURE

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL  
ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: D002, D003 (CORROSIVE, REACTIVE WASTE)

AQUATIC TOXICITY

MOSQUITO FISH 96 HR-TLM = 72 MG/L

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

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VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV  
REQUIREMENTS.

RESPIRATORY PROTECTION: AT ANY DETECTABLE CONCENTRATION, ANY SELF-CONTAINED  
BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS  
OPERATED IN A PRESSURE- DEMAND OR OTHER  
POSITIVE-PRESSURE MODE.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE  
SUIT, NEOPRENE GLOVES ARE RECOMMENDED.

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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SAF-T-DATA\* STORAGE COLOR CODE: YELLOW (REACTIVE)

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS (CONTINUED)

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STORAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. STORE SEPARATELY AND AWAY FROM FLAMMABLE AND COMBUSTIBLE MATERIALS. ISOLATE FROM INCOMPATIBLE MATERIALS. KEEP PRODUCT OUT OF LIGHT.

SPECIAL PRECAUTIONS

NITRIC ACID INCREASES THE FLAMMABILITY OF, AND CAN IGNITE MANY ORGANIC MATERIALS SUCH AS WOOD, SOLVENTS, ETC., AND CAN RELEASE TOXIC OXIDES OF NITROGEN. IN ADDITION CERTAIN MIXTURES OF STRONG NITRIC ACID WITH BENZENE, 1,2-DICHLOROETHANE, OR DICHLOROMETHANE MAY BE DETONATABLE. SPILLAGE MAY CAUSE FIRE.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: NITRIC ACID (OTHER THAN RED FUMING, WITH NOT MORE THAN 70 PERCENT NITRIC ACID)  
HAZARD CLASS: 8  
UN/NA: UN2031 REPORTABLE QUANTITY: 1000 LBS. PACKAGING GROUP: II  
LABELS: 8 CORROSIVE  
REGULATORY REFERENCES: 49CFR 172.101

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: NITRIC ACID (OTHER THAN RED FUMING, ALL CONCENTRATIONS)  
HAZARD CLASS: 8 I.M.O. PAGE: 8195  
UN: UN2031 MARINE POLLUTANTS: NO PACKAGING GROUP: II  
LABELS: 8 CORROSIVE  
REGULATORY REFERENCES: 49CFR PART 176; IMDG CODE

AIR (I.C.A.O.)

PROPER SHIPPING NAME: NITRIC ACID, OTHER THAN RED FUMING, WITH NOT MORE THAN 70 PERCENT NITRIC ACID  
HAZARD CLASS: 8  
UN: UN2031 PACKAGING GROUP: II  
LABELS: 8 CORROSIVE  
REGULATORY REFERENCES: 49CFR PART 175; ICAO==

WE BELIEVE THE TRANSPORTATION DATA AND REFERENCES CONTAINED HEREIN TO BE FACTUAL AND THE OPINION OF QUALIFIED EXPERTS. THE DATA IS MEANT AS A GUIDE TO THE OVERALL CLASSIFICATION OF THE PRODUCT  
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## SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

AND IS NOT PACKAGE SIZE SPECIFIC, NOR SHOULD IT BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH THE COMPANY ASSUMES LEGAL RESPONSIBILITY.=== THE INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION. ANY USE OF THE INFORMATION MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. SEE SHIPPER REQUIREMENTS 49CFR 171.2, CERTIFICATION 172.204, AND EMPLOYEE TRAINING 49 CFR 173.1(B).

U.S. CUSTOMS HARMONIZATION NUMBER: 280800000000

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NOTE: WHEN HANDLING LIQUID PRODUCTS, SECONDARY PROTECTIVE CONTAINERS MUST BE USED FOR CARRYING.

-N/A = NOT APPLICABLE, OR NOT AVAILABLE;

N/E = NOT ESTABLISHED.-

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET MEETS THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT AND REGULATIONS PROMULGATED THEREUNDER (29 CFR 1910.1200 ET. SEQ.) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PERSON TRAINED IN, OR SUPERVISED BY A PERSON TRAINED IN, CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS AND DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION. DEPENDING ON USAGE, PROTECTIVE CLOTHING INCLUDING EYE AND FACE GUARDS AND RESPIRATORS MUST BE USED TO AVOID CONTACT WITH MATERIAL OR BREATHING CHEMICAL VAPORS/FUMES.

EXPOSURE TO THIS PRODUCT MAY HAVE SERIOUS ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES ARE SO VARIED, BAKER CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH OTHER CHEMICALS OR MATERIALS. BAKER WARRANTS THAT THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE LABEL. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

THE USER SHOULD RECOGNIZE THAT THIS PRODUCT CAN CAUSE SEVERE INJURY AND EVEN DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY REVISE THIS MATERIAL SAFETY DATA SHEET.

NOTE: CHEMTREC, CANUTEC, AND NATIONAL RESPONSE CENTER EMERGENCY TELEPHONE  
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NUMBERS ARE TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING  
A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS. ALL  
NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE  
(1-800-JTBAKER) FOR ASSISTANCE.

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APPROVED BY QUALITY ASSURANCE DEPARTMENT.

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"ISSUED BY VWR 07-02-97"

JT9535-5

H3880

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

P084991 Order 7-2-97

MANUFACTURER.....:

PREPARATION DATE.: 03/01/91

DATE MSDS PRINTED.: JUN 11, 1992

EM SCIENCE

A DIVISION OF EM INDUSTRIES

P.O. BOX 70

480 DEMOCRAT RD.

GIBBSTOWN, N.J. 08027

INFORMATION PHONE NUMBER.: 609-354-9200

HOURS: MON. TO FRI. 8:30-5

CHEMTREC EMERGENCY NUMBER: 800-424-9300

HOURS: 24 HRS A DAY

CATALOG NUMBER(S):

PX1581 5107

CHEMICAL NAME.....: POTASSIUM PYROSULFATE

TRADE NAME.....: POTASSIUM DISULFATE

CHEMICAL FAMILY...: INORGANIC SALT

FORMULA.....: K2S2O7

MOLECULAR WEIGHT.: 254.33

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	APPR %
POTASSIUM PYROSULFATE	7790-62-7	100%

## 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.

MAY CAUSE BURNS.

APPEARANCE.....:

WHITE POWDER

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

SYMPTOMS OF EXPOSURE:

-IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANES

MAY CAUSE BURNS ON CONTACT

MSDS (CONTINUED) - PX1581

PAGE # 1

AQUEOUS SOLUTIONS ARE STRONGLY ACID  
MEDICAL COND. AGGRAVATED BY EXPOSURE:

DATA NOT AVAILABLE.

ROUTES OF ENTRY.....:

INHALATION, INGESTION OR SKIN CONTACT.

MUTAGENICITY.....:

THE MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS CANCER CAUSING  
AGENT.

#### 4. FIRST AID MEASURES

##### EMERGENCY FIRST AID:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER

SKIN: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF  
BREATHING HAS STOPPED.

#### 5. FIRE FIGHTING MEASURES

FLASH POINT (F).....: NONCOMBUSTIBLE

FLAMMABLE LIMITS LEL (%): N/A

FLAMMABLE LIMITS UEL (%): N/A

EXTINGUISHING MEDIA.....:

USE ANY SUITABLE FOR ADJACENT MATERIAL

FIRE FIGHTING PROCEDURES.:

WEAR SELF-CONTAINED BREATHING APPARATUS.

FIRE & EXPLOSION HAZARDS.:

THERMAL DECOMPOSITION PRODUCES TOXIC FUMES.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SPILL RESPONSE:

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL.

WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER EXPOSURE /  
PERSONAL PROTECTION.

ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED TO BE  
FREE FROM EXPLOSION OR FIRE HAZARDS.

CONTAIN THE RELEASE AND ELIMINATE ITS SOURCE, IF THIS CAN BE DONE  
WITHOUT RISK.

TAKE UP AND CONTAINERIZE FOR PROPER DISPOSAL AS DESCRIBED UNDER  
DISPOSAL.

COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING  
RELEASES. REFER TO REGULATORY INFORMATION FOR REPORTABLE  
QUANTITY AND OTHER REGULATORY DATA.



## 7. HANDLING AND STORAGE

## HANDLING &amp; STORAGE:

KEEP CONTAINER CLOSED.

STORE AT CONTROLLED ROOM TEMPERATURE.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION

MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES SHOULD BE WORN TO PREVENT SKIN CONTACT WHICH CAN CAUSE IRRITATION OR ALLERGIC REACTION

SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

## WORK / HYGENIC PRACTICES:

WASH THOROUGHLY AFTER HANDLING.

DO NOT TAKE INTERNALLY.

EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

## EXPOSURE GUIDELINES

## OSHA - PEL:

COMPONENT	PPM	TWA MG/M3	PPM	STEL MG/M3	PPM	CL MG/M3	SKIN
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POTASSIUM PYROSULFATE

## ACGIH - TLV:

COMPONENT	PPM	TWA MG/M3	PPM	STEL MG/M3	PPM	CL MG/M3	SKIN
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POTASSIUM PYROSULFATE

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (C 760 MMHG): DECOMP  
MELTING POINT (C): 325C  
SPECIFIC GRAVITY (H2O = 1): 2.25  
VAPOR PRESSURE (MM HG): N/A N/A  
PERCENT VOLATILE BY VOL (%): NONE  
VAPOR DENSITY (AIR = 1): N/A  
EVAPORATION RATE (BUAC = 1): N/A  
SOLUBILITY IN WATER (%): SOLUBLE  
APPEARANCE: WHITE POWDER

## 10. STABILITY AND REACTIVITY

STABILITY: YES  
HAZARDOUS POLYMERIZATION:  
DATA NOT AVAILABLE.

HAZARDOUS DECOMPOSITION.:  
SOX, K2O

CONDITIONS TO AVOID:.

-EXTREME HEAT

MATERIALS TO AVOID:.

( ) WATER  
( ) ACIDS  
( ) BASES  
( ) CORROSIVES  
( ) OXIDIZERS  
( ) OTHER :

## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:  
N/A

TOXICOLOGICAL FINDINGS:  
NONE

CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

## 12. DISPOSAL CONSIDERATIONS

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## EPA WASTE NUMBERS:

## TREATMENT:

MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE, HOWEVER CONSULTATION WITH A PERMITTED WASTE DISPOSAL SITE (TSD) SHOULD BE ACCOMPLISHED.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

## 13. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME....:

NON-REGULATED

DOT ID NUMBER.....: NONE

## 14. REGULATORY INFORMATION

TSCA INVENTORY.....:

THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

COMPONENT	SARA EHS (302)	SARA EHS TPQ (LBS)	CERCLA RQ (LBS)
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POTASSIUM PYROSULFATE

COMPONENT	OSHA FLOOR LIST	SARA 313	DEMINIMIS FOR SARA 313 (%)
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POTASSIUM PYROSULFATE

## 15. OTHER INFORMATION

## COMMENTS:

NONE

## NFPA HAZARD RATINGS:

HEALTH : 1

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FLAMMABILITY : 0  
REACTIVITY : 0  
SPECIAL HAZARDS:

## REVISION HISTORY:

01/09/86 01/31/87 10/27/87

I = REVISED SECTION  
N/A = NOT AVAILABLE  
N/E = NONE ESTABLISHED

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