EMERGENCY PHONE 1-314-771-5765
DATE 05/22/96
CUST#: 2-097-94804
PO#: QH5081

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SECTION 1. - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - -

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NAME: PERIODIC ACID

SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - -

CAS #: 10450-60-9
MF: H5106
EC NO: 233-937-0

SECTION 3. - - - - - - HAZARDS IDENTIFICATION - - - - - - -

LABEL PRECAUTIONARY STATEMENTS
OXIDIZING
CORROSIVE
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
CAUSES BURNS.
TOXIC BY INHALATION. IN CONTACT WITH SKIN AND IF SWALLOWED.
KEEP AWAY FROM COMBUSTIBLE MATERIAL.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

SECTION 4. - - - - - - - FIRST-AID MEASURES- - - - - - - - -

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

SECTION 5. - - - - - - - FIRE FIGHTING MEASURES - - - - - - -

EXTINGUISHING MEDIA
WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
STRONG OXIDIZER.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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SECTION 5. ACCIDENTAL RELEASE MEASURES:
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE:
REFER TO SECTION 8.

ADDITIONAL INFORMATION
SOLUTIONS OF PERIODIC ACID IN METHYL SULFOXIDE (DMSO) HAVE BEEN REPORTED TO EXPLODE AFTER STANDING A FEW MINUTES. EVAPORATION OF AN AQUEOUS SOLUTION OF TETRAETHYLAMMONIUM HYDROXIDE CONTAINING A SLIGHT EXCESS OF PERIODIC ACID RESULTED IN AN EXPLOSION AFTER VACUUM EVAPORATION OF MOST OF THE WATER.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
AVOID BREATHING DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
TOXIC.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:
APPEARANCE AND ODOR: WHITE CRystALLINE POWDER
PHYSICAL PROPERTIES
MELTING POINT: 122 C

SECTION 10. STABILITY AND REACTIVITY:
INCOMPATIBILITIES
STRONG REDUCING AGENTS
FINELY POWDERED METALS
STRONG BASES
DIMETHYL SULFOXIDE (DMSO)

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P7875
PERIODIC ACID

PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
HYDROGEN IODIDE

SECTION 11. ------ TOXICOLOGICAL INFORMATION ------

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPASTM, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI. CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ------ ECOLOGICAL INFORMATION ------

DATA NOT YET AVAILABLE.

SECTION 13. ------ DISPOSAL CONSIDERATIONS ------

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
OXIDIZING
CORROSIVE
R 8
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
R 34
CAUSES BURNS.
R 23/24/25
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
S 17
KEEP AWAY FROM COMBUSTIBLE MATERIAL.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

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TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

SECTION 16. OTHER INFORMATION-

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE ResultING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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MATERIAL WAS SHIPPED TO THIS ADDRESS:
UNIVERSITY OF WISCONSIN
WHITewater
ATTN CLAUDIA BARRETO
BIOLOGICAL SCIENCES
303 UPHAM HALL
WHITewater W1 53190