MATERIAL SAFETY DATA SHEET

PRODUCT #: 30590-1  NAME: CALCIUM ATOMIC ABSORPTION STANDARD SOLUTION (HNO3)

TOXICITY HAZARDS

NO TOXICITY DATA AVAILABLE

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 SPASM, 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.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH ABUNDANT 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.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

PHYSICAL DATA

SPECIFIC GRAVITY: 1.010
APPEARANCE AND ODOR:
CLEAR COLORLESS LIQUID
FLASHPOINT: NONE

CONTINUOUS ON NEXT PAGE
**MATERIAL SAFETY DATA SHEET**

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--- \[ MATERIAL FIRE AND EXPLOSION HAZARD DATA \] ---

**SPECIAL FIREFIGHTING PROCEDURES**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
Emits toxic fumes under fire conditions.

--- \[ MATERIAL REACTIVITY DATA \] ---

**INCOMPATIBILITIES**  
Strong bases  
**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS**  
Nitrogen oxides

--- \[ MATERIAL SPILL OR LEAK PROCEDURES \] ---

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**  
Evacuate area.  
Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.  
Absorb on sand or vermiculite and place in closed containers for disposal.  
**VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.**  
**WASTE DISPOSAL METHOD**  
Neutralize the solution and add filtering agent (10g per 100mL).  
Evaporate liquid and bag residual solid for burial.  
**APPROVED FOR HAZARDOUS-WASTE DISPOSAL.**  
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**  
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.**  
**FACE SHIELD (EYE MINIMUM).**  
Do not get in eyes, on skin, or clothing.  
**AVOID PROLONGED OR REPEATED EXPOSURE.**  
Wash thoroughly after handling.

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PRODUCT #: 30590-1  NAME: CALCIUM ATOMIC ABSORPTION STANDARD SOLUTION (HNO3)

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

CORROSIVE.
KEEP TIGHTLY CLOSED.
TOXIC.
STORE IN A COOL DRY PLACE.

LABEL PRECAUTIONARY STATEMENTS
CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REGULATORY INFORMATION
1.0% NITRIC ACID 7697-37-2
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

ADDITIONAL PRECAUTIONS AND COMMENTS

ADDITIONAL INFORMATION CONTAINS APPROXIMATELY 1000 PPM CF CALCIUM DISSOLVED IN 1% NITRIC ACID.

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