

# MATERIAL SAFETY DATA SHEET

MSDS DATE:08/01/07

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: PERIODIC ACID, 1%  
SYNONYMS: N/A  
PRODUCT CODES: 19324-10

MANUFACTURER: ELECTRON MICROSCOPY SCIENCES  
DIVISION: 1560 INDUSTRY ROAD/P.O. BOX 550  
ADDRESS: HATFIELD, PA 19440

EMERGENCY PHONE: 215-412-8400  
CHEMTREC PHONE: 800-424 -4300

FAX PHONE: 215-412-8450

CHEMICAL NAME: N/A  
CHEMICAL FAMILY: N/A

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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### INGREDIENT:

PERIODIC ACID, ACS REAGENT GRADE

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
10450-60-9	N/A	1	
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	N/A	N/A	
OSHA PEL STEL :	N/A	N/A	
OSHA PEL CEILING:	N/A	N/A	
ACGIH TLV-TWA:	N/A	N/A	
ACGIH TLV STEL:	N/A	N/A	
ACGIH TLV CEILING:	N/A	N/A	

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## SECTION 3: HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW:

ROUTES OF ENTRY: INHALATION, SKIN, INGESTION

### POTENTIAL HEALTH EFFECTS

EYES: MAY CAUSE BURNS. IRRITATING TO EYES

SKIN: MAY CUASE BURNS, IRRITATING TO SKIN

INGESTION: TOXIC IF SWALLOWED

INHALATION: N/A

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: MATERIAL IS DESTRUCTIVE TO TO TISSUE OF MUCUS MEMBRANES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

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### CARCINOGENICITY

OSHA: N/A                      ACGIH: N/A                      NTP: N/A                      IARC: N/A  
OTHER: N/A

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## SECTION 4: FIRST AID MEASURES

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EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN!

SKIN: WASH WITH SOAP AND WATER. IF IRRITATION OCCURS SEEK MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE RE-USE

INGESTION: N/A

INHALATION: N/A

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

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## SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABLE LIMITS IN AIR, UPPER: N/A  
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F: N/A

C: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE:N/A

F: N/A

C: N/A

NFPA HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

PROTECTION: N/A

EXTINGUISHING MEDIA: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY PRODUCE TOXIC GASES OF IODINE

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: WEARING PROPER PROTECTIVE CLOTHING STOP LEAK IF YOU CAN DO SO WITHOUT RISK. VENTILATE AREA. NEUTRALIZE SPILL WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, CONTAINERIZE FOR PROPER DISPOSAL. WASH SPILL AREA WITH WATER.

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION PROOF AREA. USE CARE WHEN HANDLING

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OTHER PRECAUTIONS: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS:

VENTILATION: LOCAL EXHAUST

RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST

EYE PROTECTION: SAFETY GOGGLES

SKIN PROTECTION: ACID RESISTANT PROTECTIVE GLOVES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: APPROVED UNIFORM AND OR PROTECTIVE SUIT.

WORK HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING. WASH CLOTHING BEFORE REUSE.

EXPOSURE GUIDELINES: N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: CLEAR COLORLESS

ODOR: N/A

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: N/A

pH (Other): N/A

BOILING POINT:

F: N/A

C: 100 DEG

MELTING POINT:

F: N/A

C: 0 DEG

FREEZING POINT: N/A

F: N/A

C: N/A

VAPOR PRESSURE (mmHg): N/A

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F: N/A

C: N/A

VAPOR DENSITY (AIR = 1): N/A

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F: N/A

C: N/A

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F: N/A

C: N/A

EVAPORATION RATE: N/A

BASIS (=1): N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

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SOLUBILITY IN WATER: COMPLETE IN ALL PROPORTIONS

PERCENT SOLIDS BY WEIGHT: N/A

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PERCENT VOLATILE: N/A  
BY WT/ BY VOL @  
F: N/A  
C: N/A

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: N/A LBS/GAL  
WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT: N/A  
VISCOSITY: N/A  
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F: N/A  
C: N/A

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## SECTION 10: STABILITY AND REACTIVITY

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STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): NONE DOCUMENTED

INCOMPATIBILITY (MATERIAL TO AVOID): STRONG BASES, STRONG REDUCING AGENTS, ORGANIC MATERIALS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: IODINE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID (POLYMERIZATION): NONE DOCUMENTED

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: N/A

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: N/A

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: COMPLY WITH FEDERAL, STATE, LOCAL REGULATIONS.

RCRA HAZARD CLASS: N/A

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## SECTION 13: DISPOSAL CONSIDERATIONS (con't)

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## SECTION 14: TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION  
PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENT:

DOT- NON REGULATED

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## WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

## AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

OTHER AGENCIES: N/A

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION: N/A

PREPARATION INFORMATION: N/A

DISCLAIMER: IN COMPLIANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD, 2.9 C.F.R. 1910. 1200, WE ARE PROVIDING YOU WITH A MSDS FOR THE HAZARDOUS MATERIAL YOU ARE PURCHASING.

IT IS YOUR RESPONSIBILITY TO EDUCATE YOUR EMPLOYEES ON THE SAFE USE OF THE HAZARDOUS MATERIAL.

ELECTRON MICROSCOPY SCIENCES MAKES NO PRESENTATION AS TO THE ACCURACY OF THE INFORMATION IN THE MSDS. THE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, YOU (THE CUSTOMER), SHOULD PERFORM YOUR OWN INVESTIGATION AND INDEPENDENT VERIFICATION. IF YOU RESELL THE PRODUCT, YOU ARE RESPONSIBLE TO FORWARD THE INFORMATION IN THE MSDS TO YOUR CUSTOMER.