


MATERIAL SAFETY DATA SHEET

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HAZARD RATING		
N	4 - EXTREME	
F	3 - HIGH	
P	2 - MODERATE	
A	1 - SLIGHT	
0 - INSIGNIFICANT		

PRODUCT: Acid Etch, 10% and 35%

DATE PREPARED: June 18, 2002

Hazardous Components		Physical/Chemical Characteristics	
INGREDIENTS: Phosphoric Acid	PERCENTAGE: N/A	BOILING POINT/FLASH POINT: 135° C	pH: Approx. 1
COMMON NAMES AND SYNONYMS: Acid Etch, tooth conditioner	CAS NUMBER: 7664-38-2	VISCOSITY: N/A	DENSITY 1.1 to 1.4 : g/cm ³
PEL: 1mg/m ³	UN NUMBER: UN 1805	VAPOR PRESSURE: 0.0285	EVAPORATION RATE: (butyl acetate = 1) N/A
TLV: 3mg/m ³		APPEARANCE/ODOR: 10% clear, green gel 35% opaque, blue gel Both with characteristic color	SOLUBILITY IN WATER: Soluble

Reactivity Data		Fire and Explosion Hazard Data	
STABILITY: Stable		FLASH POINT: N/A	LIMITS: LEL: N/A UEL: N/A
CONDITIONS TO AVOID: None		EXTINGUISHING MEDIA: Use water spray to keep fire-exposed containers cool. Extinguish fire using agent suitable for surrounding fire.	
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases, steam, hydrogen (flammable gas) oxides of carbon and phosphorus		SPECIAL FIREFIGHTING PROCEDURES: Wear protective clothing and positive pressure self-contained breathing apparatus.	
HAZARDOUS POLYMERIZATION: Does not occur.		UNUSUAL FIRE AND EXPLOSION HAZARDS: Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of carbon and phosphorus.	
CONDITIONS TO AVOID: None.			

Health Hazard Data

CARCINOGENICITY:
Not known.

NTP:
No.

IARC:
No.

OSHA REGULATED:
No.

Effects and Hazards of Overexposure (Acute and Chronic)

EFFECTS AND HAZARDS OF EYE CONTACT:

Corrosive. May cause burns or irritation.

EFFECTS AND HAZARDS OF SKIN CONTACT:

Slightly toxic if absorbed. Corrosive. May cause burns or irritation. May not produce an immediate burning sensation, delaying awareness that contact has occurred.

EFFECTS AND HAZARDS OF INHALATION (BREATHING):

None expected under normal conditions of use of this product. However, if inhaled as a mist or vaporized, it can be irritating to the respiratory tract.

EFFECTS AND HAZARDS OF INGESTION (SWALLOWING):

Corrosive. May cause burns or irritation to the mouth, throat or gastrointestinal tract. Slightly toxic.

OTHER REGULATORY INFORMATION: N;

California Proposition No.65 Warning: This product contains chemicals known to the State of California to cause cancer.

Emergency and First Aid Procedures

TREATMENT FOR EYE CONTACT:

Immediately flush with plenty of water for 15 minutes. Get medical attention.

TREATMENT FOR SKIN CONTACT:

Immediately flush with plenty of water for 15 minutes while removing contaminated clothing. Get medical attention. Wash clothing before reuse.

TREATMENT FOR INHALATION (BREATHING):

Remove to fresh air. Seek medical attention if symptoms persist.

TREATMENT FOR INGESTION (SWALLOWING):

Dilute with water or milk. Do not induce vomiting. Get medical attention.

Precautions for Safe Handling and Use

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear gloves and chemical splash goggles. For small qty (as in this prod.): absorb spill with dry paper towels. Place all material in chemical waste container for disposal. Flush spill area with

WASTE DISPOSAL METHOD:

Follow all federal, state and local government regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store tightly closed in cool, dry, well-ventilated location away from heat sources and out of direct sunlight. Separate from alkalis and most metals.

OTHER PRECAUTIONS:

Wash thoroughly after handling. Use with adequate ventilation. Keep containers closed. Empty container retains vapor & prod. residue; observe all safeguards.

Control Measures

RESPIRATORY PROTECTION:

Under normal conditions of use of this product, the surgical masks usually worn by dental staff are adequate. If used clinically, a high speed evacuation tip should be used to protect patient. When airborne limits are exceeded, a NIOSH-approved respirator with full face piece is recommended.

Ventilation

LOCAL EXHAUST VENTILATION: None for normal conditions of use.

SPECIAL VENTILATION: For large qty adequate ventilation to keep TLV 3mg/m3.

MECHANICAL (GENERAL) VENTILATION: Recommended

OTHER VENTILATION: For large qty, adequate ventilation to keep TLV below 3mg/m3

PROTECTION GLOVES: Chemical resistant gloves

EYE PROTECTION: Chemically resistant splash goggles

OTHER PROTECTIVE EQUIPMENT: Wear long sleeves, apron or Coat. Clinically, use rubber dam and hi-speed evacuator. Mask all surround tissue. Eye wash fountain recommended.

WORK AND HYGIENIC PRACTICES: Wash thoroughly after. Clean protective equip before reuse.

Additional Information

This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29CFR 1910.1200) and is to be used only for this product. The information contained in this sheet is, to the best of our knowledge, believed to be accurate.

Health Hazard Index:

Ratings:

SEVERE HAZARD

1

SERIOUS HAZARD

2

MODERATE HAZARD

③

SLIGHT HAZARD

4

MINIMUM HAZARD

5

Shipping Information

REGULATED IATA: N/A

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

PACKAGING GROUP: N/A

LABEL: N/A

To the best of our knowledge, the information contained herein is accurate. However, The Harry J. Bosworth company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

ACID ETCH, 10% and 35% MSDS302