DPM 5436
Coating, Zinc Phosphate, Electroplating

MAR 20 1980

MATERIAL SAFETY DATA SHEET

(Approved by U. S. Department of Labor "Essentially Similar" to Form OSHA-20)

I. Manufacturer's Name: AMCHEM PRODUCTS, INC.
Address (number, street): Brookside Avenue
(City, state, zip code): Ambler, PA 19002
Emergency Telephone Number:
Information Supplied by:
Date: Title:

Product Trade Name: GRANODINE 32
Chemical Name & Synonyms:
Chemical Family: Formula:
National Fire Protection Association 704M Signal (or estimate)
Health ___ Fire ___ Reactivity ___ Specific Hazard ___

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)	MATERIAL	%	TLV (Units)
Zinc	7-10		Phosphoric Acid	20-25	
Nickel	0.5		Nitric Acid	3-5	

III. PHYSICAL DATA

a. Boiling point (°F)
b. Vapor pressure (mm Hg)
c. Vapor density (Air = 1)
d. Solubility in water (%)
e. Specific gravity (H_2O = 1) 1.332
f. Per cent volatile by volume
g. Evaporation rate (___ = 1)
h. Appearance & odor:

IV. FIRE AND EXPLOSION HAZARD DATA

a. Flash point (state method, °F)
b. Ignition temperature (°F)
c. Flammable limits in air, LEL UEL
d. Extinguishing media:
e. Special fire fighting procedures:
f. Unusual fire and explosion hazards:

V. HEALTH HAZARD DATA

a. Physiological Properties:
1. Acute oral toxicity (LD_{50} if available):
2. Local effects to eyes:
3. Local effects to skin:
4. Sensitizing effects:
5. Dermal absorption (LD_{50} if available):
6. Inhalation effects (LC_{50} if available):

FEB 09 1982

BOE-C6-0202819

Product Name _____

V.

b. Emergency and First Aid Procedures:

1. Ingestion: Drink 2-3 glasses of limewater followed by several glasses of milk. Call a doctor.
2. Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Call a doctor.
3. Skin Contact: Wash thoroughly with water.
4. Inhalation: _____

Other Health Data: _____

VI. REACTIVITY DATA

a. Stability: Stable X Unstable _____ Conditions to avoid: _____

b. Incompatible Materials: strong alkalis or organic materials

c. Hazardous Decomposition Products: _____

d. Hazardous Polymerization: May occur _____ Will not occur X Conditions to avoid: _____

VII. SPILL OR LEAK PROCEDURES

a. Steps to be taken for spill or leak: Transfer remainder to a clean polyethylene lined drum. Discard broken container and flush any residual material with plenty of water.

b. Waste disposal methods: Adjust pH to 8.0 with lime and remove solids by filtration.

VIII. SPECIAL PROTECTION INFORMATION

a. Respiratory protection (Specify type) requirements: Face mask with acid mist cartridge

b. Ventilation requirements (local exhaust, general dilution, special): Local

c. Protective gloves required: Rubber

d. Eye protection required: Goggles or face shield

e. Other required equipment: Rubber apron

IX. SPECIAL PRECAUTIONS

a. Precautionary label required? If yes, please attach. _____

b. Precautions to be taken in handling and storing: Store in a cool, dry area. Freezing point - 10°F

c. Other precautions: _____

BOE-C6-0202820