CHAMCHEM1

Revised Date: March 29, 1984

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): 300 Brookside Avenue
(City, state, zip code): Ambler, PA 19002
Emergency Telephone Number: (215) 628-1000
Information Supplied by: Hugh Gehman
Date: 3/24/83 Title: Coordinator of Registration and Labeling

Product Trade Name: Alodine 1500
Chemical Name & Synonyms:
Chemical Family: Formula:
Special Hazards:

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)	MATERIAL	%	TLV (Units
Chromic acid	3-5	0.05mg/M^3			
Ammonium fluozirconate	2-4				
Fluozirconic acid	1-3				

CONFIDENTIAL
Proprietary Information
Amchem Products, Inc.

III. PHYSICAL DATA

a. Boiling point (°F) >212
b. Vapor pressure (mmHg)
c. Vapor density (Air = 1)
d. Solubility in water (%) Complete
e. Specific gravity (H_2O = 1) 1.04-1.06
f. Per cent volatile by volume
g. Evaporation rate (= 1)
h. Appearance & odor: Yellow orange liquid; odorless

IV. FIRE AND EXPLOSION HAZARD DATA

a. Flash point (state method, °F) None
b. Ignition temperature (°F)
c. Flammable limits in air, LEL UEL
d. Extinguishing media: Water
e. Special fire fighting procedures: None
f. Unusual fire and explosion hazards: Do not allow to come in contact with organic materials such as sawdust, rags, etc. Spontaneous combusti may result if material dries on such organic materials.

V. HEALTH HAZARD DATA

a. Physiological Properties:
1. Local effects to skin: Will burn.
2. Genetic Hazard
3. Acute oral toxicity (LD_{50} if available): Will burn mucous membranes.
4. Dermal absorption (LD_{50} if available):
5. Inhalation effects (LC_{50} if available):
6. Threshold Limit Value (or estimate) 0.05mg/M^3 based on chromic aci
7. Local effects to eyes: Will burn.

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