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U.S. DEPARTMENT OF LABOR
WORKPLACE STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

CONFIDENTIAL
Proprietary Information
Amchem Products, Inc.

SECTION I

MANUFACTURER'S NAME: AMCHEM PRODUCTS, INC.	EMERGENCY TELEPHONE NO.: (215) ~~646-1700~~ 622-1321
ADDRESS (Number, Street, City, State, and ZIP Code): Brookside Avenue; Ambler, Penna. 19002	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS: Alodine 1200
CHEMICAL FAMILY	FORMULA

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (Units)
Powder Mixture	Chromic Acid	25-35	
	Ferricyanide Salt	10-20	
	Complex Fluoride Salts	45-55	

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	-	SPECIFIC GRAVITY (H_2O = 1)	
VAPOR PRESSURE (mm Hg.)	-	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR = 1)	-	EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	very		

APPEARANCE AND ODOR: Dark orange powder - slight acidic odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	None	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Water			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Do not allow powder to come in contact with organic materials such as sawdust, rags, paper, etc.			

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
0.1 mg./M^3 (air); 0.05 ppm (water) based on Cr^{+6}

EFFECTS OF OVEREXPOSURE
Ulceration of mucous membranes

EMERGENCY AND FIRST AID PROCEDURES
Skin contact - wash thoroughly with soap and water immediately.
Eye contact - flush with large amounts of water. Call a doctor.
Ingestion: Drink milk of magnesia, lime water, or aluminum hydroxide gel. Call a doctor.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS hydrofluoric acid

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Transfer contents to a clean lined polyethylene drum. Discard broken container after rinsing with water.

WASTE DISPOSAL METHOD Reduce with bisulfite and then neutralize with lime.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Filter type dust, fume and mist respirator 30CFR14 (Bureau of Mines Schedule 21B) Mask or respirator

VENTILATION		SPECIAL
	LOCAL EXHAUST X	Should have an adequate exhaust system.
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES	EYE PROTECTION
Rubber	Goggles, face shields

OTHER PROTECTIVE EQUIPMENT Aprons

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Do not allow organic materials such as sawdust, rags, etc., to become saturated with Alodine 1200 application as they may be easily ignited when dry.

OTHER PRECAUTIONS
Keep container closed. Do not get in eyes, on skin, on clothing. Do not breathe dust.