JAN 28 1982

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME: Sherwin Incorporated	EMERGENCY TELEPHONE NO.: 213/261-0251
ADDRESS (Number, Street, City, State, and ZIP Code): 5007 E. Washington Blvd., Los Angeles, CA 90040	
CHEMICAL NAME AND SYNONYMS: n/a	TRADE NAME AND SYNONYMS: D100 Developer (nonaqueous)
CHEMICAL FAMILY: Chemical Compound	FORMULA: n/a

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS talc	15-20%	-	BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Isopropanol	80-85%	400ppm	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
(Spray can packages would include either chlorofluorocarbon or hydrocarbon propellant. Open flames and welding arcs can cause thermal decomposition of ~~chlorofluorocarbon ("Freon"), producing hydrogen chloride and phosgene.~~ Hydrocarbon (isobutane, butane, propane) propellants are extremely flammable.)		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	181	SPECIFIC GRAVITY (H_2O=1)	.85
VAPOR PRESSURE (mm Hg.)	33	PERCENT, VOLATILE BY VOLUME (%)	80-85%
VAPOR DENSITY (AIR=1)	2.07	EVAPORATION RATE (butyl acetate=1)	2.12
SOLUBILITY IN WATER	except solids, complete		
APPEARANCE AND ODOR	White liquid when particles suspended, nonresidual unpleasant odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): Tag O.C. 63°F	FLAMMABLE LIMITS	Lel: 2.3	Uel: 12.7

EXTINGUISHING MEDIA: CO_2, dry chemical small fires; use "alcohol" type foam large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Dilution of burning liquid with 22 to 25 volumes of water may effect extinguishment. Cool exposed containers with water. Keep upwind. Keep people away.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable

Run-off to waterway creates fire hazard; notify fire department.

(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
TLV 400 ppm. Liquid causes eye burns.

EFFECTS OF OVEREXPOSURE
Vapor irritating to eyes, nose and throat and can result in headaches, giddiness and nausea.

EMERGENCY AND FIRST AID PROCEDURES
If overcome by vapors, remove to fresh air, summon a physician. If breathing irregular or stopped, start resuscitation, administer oxygen. Skin and eye contact - flush with water several minutes.

Ingestion - induce vomiting and summon physician.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		Anhydride, isocyanate, monomer,
	STABLE	X	and organometallic contamination.

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

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

Eliminate all ignition sources. Flush heavily with water.

Ventilate enclosed spaces.

WASTE DISPOSAL METHOD

Atomize into an incinerator.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*
Organic vapor canister or air supplied mask.

VENTILATION		
	LOCAL EXHAUST	SPECIAL Use only with adequate ventilation.
	MECHANICAL *(General)* Explosion proof ventilation equipment.	OTHER No smoking or open lights.

PROTECTIVE GLOVES
Rubber or vinyl coated gloves.

EYE PROTECTION
Chemical goggles or face splash shield.

OTHER PROTECTIVE EQUIPMENT
Rubber or neophrene apron.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep container closed. Keep away from heat, sparks and open flame. Use only with adequate ventilation. Do not store in aluminum.

OTHER PRECAUTIONS
Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing vapors.

GPO 934-110

Form OSHA-20
Rev. May 72

BOE-C6-0204146