Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration

OMB No. 1218-0074
Expiration Date 05/31/86

OCT. 21, 1985

PD ACTIVATOR #28-0080, 28-0111
28-0222, 28-0110

Section I

Manufacturer's Name: BRUNING

Emergency Telephone Number: (203) 453-5294

Address (Number, Street, City, State, and ZIP Code): 1800 BRUNING DRIVE WEST
ITASCA, IL. 60143

Chemical Name and Synonyms: N/A

Trade Name and Synonyms: PD ACTIVATOR, DEVELOPER

Chemical Family: N/A

Formula: N/A

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments: THIS IS CONFIDENTIAL INFORMATION			Base Metal		
Catalyst: TO BE USED FOR HEALTH AND			Alloys: GENERIC NAME		
Vehicle: SAFETY PURPOSES ONLY			Metallic Coatings		
Solvents: ETHYLENE GLYCOL (107-21-1)	35	50PPM	Filler Metal Plus Coating or Core Flux: GLYCOLS		
Additives: HEXYLENE GLYCOL (107-41-5)	10	25PPM	Others		
Others: BENZYL ALCOHOL (100-51-6)	10	NONE KNOWN			

Hazardous Mixtures of Other Liquids, Solids or Gases

	CAS#		%	TLV (Units)
MONOETHANOL AMINE	(143-43-5)	ALKANOL AMINES	20	3 PPM
2-(2-AMINOETHOXY) ETHANOL	(292-06-6)		20	NONE KNOWN
OLEIC ACID	(112-80-1)		5	NONE KNOWN

Section III - Physical Data

Boiling Point (°F)	210-650	Specific Gravity (H_2O=1)	1.05
Vapor Pressure (mm Hg.)	< 1	Percent Volatile by Volume (%)	90
Vapor Density (AIR=1)	UNKNOWN	Evaporation Rate ——— =1) BUTYL ACETATE=1	< 0.1

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, PALE YELLOW LIQUID. NO DISTINCTIVE ODOR.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): PENSKY-MARTIN CLOSED CUP 233-234°F

Flammable Limits: NOT KNOWN — Lel: — Uel: —

Extinguishing Media: WATER, CO_2, DRY CHEMICAL

Special Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS

Unusual Fire and Explosion Hazards: NONE KNOWN

PD ACTIVATOR

Section V - Health Hazard Data

Threshold Limit Value

SEE SECT. II

Effects of Overexposure

MAY CAUSE SKIN IRRITATION. EYE CONTACT MAY CAUSE EYE DAMAGE.

Emergency First Aid Procedures

SKIN CONTACT: FLUSH THOROUGHLY WITH WATER.

EYE CONTACT: FLUSH THOROUGHLY WITH WATER, GET PROMPT MEDICAL ATTENTION.

Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid HIGH TEMPERATURES, OPEN FLAME
	Stable	X	

Incompatability (Materials to Avoid)

STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products

IN FIRE CONDITIONS: OXIDES OF CARBON AND NITROGEN.

Hazardous Polymerization	May Occur		Conditions to Avoid NONE KNOWN
	Will Not Occur	X	

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

USE PROTECTIVE GLOVES AND GOGGLES. MOP OR FLUSH WITH WATER AND BLOT WITH TOWELS.

Waste Disposal Method

INCINERATION. SMALL QUANTITIES MAY BE DILUTED WITH WATER AND FLUSHED DOWN DRAIN IF LOCAL REGULATIONS PERMIT. IN SMALL AMOUNTS THE MATERIAL IS BIODEGRADABLE.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

WHEN FIGHTING FIRES, USE SELF CONTAINED BREATHING APPARATUS.

Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (General) NORMAL OFFICE VENTILATION (AT LEAST 3 AIR CHANGES PER HOUR)	Other

Protective Gloves RUBBER, POLYETHYLENE FOR PROLONGED CONTACT.	Eye Protection SAFETY GLASSES WHEN POURING

Other Protective Equipment

N/A

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

DO NOT RUB EYES AFTER CONTACT WITH FLUID. WASH HANDS AFTER CONTACT.

AVOID PUNCTURING CONTAINERS.

Other Precautions

NONE KNOWN.