DPM 2449-2 Developer

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

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.: 213/861-6324
ADDRESS (Number, Street, City, State, and ZIP Code): 5530 Borwick Ave., South Gate, CA 90280	
Mixture. (Solvent CAS No. 67-63-0	TRADE NAME AND SYNONYMS: D100 Developer & D350 Developer
CHEMICAL FAMILY	FORMULA

SECTION II INGREDIENTS

Ingredient	Apprx %
Isopropyl Alcohol	95%
Talc, hydrous magnesium silicate	5%

Solvent (isopropyl alcohol) represents principal hazard. See MSDS of Shell Oil Company, number 5,120-6, October 1985, attached for both Physical Hazard and Health Hazard data.

Powder represents small portion of mixture and has a TLV of 2 mg/M^3 respirable dust over 8 hour exposure period. As a suspension and as used in the process, powder dust should not be a problem.

NOTE: Spray can package would include hydrocarbon propellant. Hydrocarbon propellant is extremely flammable. Note special precautions for handling and storing spray can packages. Read the label.

SEE ATTACHED SHELL OIL CO. MSDS FOR HAZARD INFORMATION.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		180	SPECIFIC GRAVITY (H_2O=1)	0.79
VAPOR PRESSURE (mm Hg.)	68 F	33	PERCENT, VOLATILE BY VOLUME (%)	95
VAPOR DENSITY (AIR=1)		2.1	EVAPORATION RATE (N-butyl acetate = 1)	1.4
SOLUBILITY IN WATER	complete except powder.			
APPEARANCE AND ODOR	White powder suspension. Mild alcohol odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 53 F-TCC	FLAMMABLE LIMITS	Lel: 2	Uel: 12

EXTINGUISHING MEDIA
Use water fog, "Alcohol" Foam, Dry Chemical or CO-2

SPECIAL FIRE FIGHTING PROCEDURES
SEE ATTACHED SHELL MSDS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
SEE ATTACHED SHELL MSDS.

DPM 2449-2
Developer, Non-Aqueous, Wet

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

JAN 28 1982

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OMB No. 44-R1387

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SECTION I

MANUFACTURER'S NAME: Turco Products, Inc.	EMERGENCY TELEPHONE NO.: (213) 634-3300
ADDRESS (Number, Street, City, State, and ZIP Code): 24600 South Main Street, Carson, California 90745	(213) 835-1391
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS: Turco Fluro Chek P-41 Penetrant
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)
Ingredients not defined as hazardous by the U. S. Dept. of Labor		
Carcinogens	None	

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) More than	300	SPECIFIC GRAVITY (H_2O=1)	0.936
VAPOR PRESSURE (mm Hg.) Less than	20	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1) More than	1	EVAPORATION RATE (butyl acetate) Less than	1
SOLUBILITY IN WATER	slight		
APPEARANCE AND ODOR	Clear, viscous, greenish-yellow fluorescent liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Greater than 250°F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Carbon dioxide, dry chemical, foam			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II

EFFECTS OF OVEREXPOSURE

Skin & eyes; mildly irritating - Ingestion; nausea

EMERGENCY AND FIRST AID PROCEDURES

Skin; flush with large amounts of water. Eyes; flush with water, if irritation persists, obtain med. attention. Ingestion; DO NOT induce vomiting, obtain medical attention.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide

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

Absorb on rags or flush to sewer

WASTE DISPOSAL METHOD

Incinerate

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

VENTILATION			
	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL *(General)*		OTHER

PROTECTIVE GLOVES		EYE PROTECTION	
	X		X

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Transport and store in closed containers at temperatures between 40°F and 140°F

OTHER PRECAUTIONS

Keep from freezing

GPO 930-540

BOE-C6-0204132

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

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MATERIAL SAFETY DATA SHEET

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SECTION I

MANUFACTURER'S NAME: Turco Products, Inc.	EMERGENCY TELEPHONE NO.: (213) 634-3300
ADDRESS (Number, Street, City, State, and ZIP Code): 24600 South Main Street, Carson, California 90745	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS: Turco Fluro Chek P-41 Penetrant
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)
Ingredients not defined as hazardous by the U. S. Dept.		
of Labor		
Carcinogens	None	

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	More than	300	SPECIFIC GRAVITY (H_2O=1)	0.936
VAPOR PRESSURE (mm Hg.)	Less than	20	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	More than	1	EVAPORATION RATE (butyl acetate	Less than 1
SOLUBILITY IN WATER		slight		

APPEARANCE AND ODOR: Clear, viscous, greenish-yellow fluorescent liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Greater than 250°F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Carbon dioxide, dry chemical, foam			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II

EFFECTS OF OVEREXPOSURE

Skin & eyes; mildly irritating - Ingestion; nausea

EMERGENCY AND FIRST AID PROCEDURES

Skin; flush with large amounts of water. Eyes; flush with water, if irritation persists, obtain med. attention. Ingestion; DO NOT induce vomiting, obtain medical attention.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide

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

Absorb on rags or flush to sewer

WASTE DISPOSAL METHOD

Incinerate

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

VENTILATION			
	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL *(General)*		OTHER

PROTECTIVE GLOVES		EYE PROTECTION	
	X		X

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Transport and store in closed containers at temperatures between 40°F and 140°F

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