Haskell Number 5931

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division AUTOMOTIVE + INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical:
PIGMENTED POLYESTER PORTION OF A 3 COMPONENT POLY URETHANE ENAMEL SYSTEM. RESIN IS POLYESTER WITH ABOUT 8% HYDROXYL CONTENT "DESMOPHEN 650"

Synonym, Product Name and/or Designations:
IMRON® 836 ENAMEL - COLOR BASE (COMPONENT A) UNSHADED WHITE

(A) MIXING: THIS MATERIAL MUST BE ACTIVATED PRIOR TO USE. MIX IN THE FOLLOWING RATIOS: BY VOLUME — 200 ml. 836-0185 (or) 1218. grams
200 ml VG-219 823. grams
15.5 ml VH-218 63. grams.

(B) REDUCE 10% BY VOL. WITH #39055 THINNER AND LET STAND 30 MIN. BEFORE USE.

Sample: Code No. 836-0185 Lot No. P-590448 Amount 1 PINT

Grade _____ Color WHITE Form _____ Mol. Wt. _____

Special Handling Requirements POT LIFE ABOUT 8 HOURS

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient 67.37% WT SOLIDS %

Composition, if a mixture (are percentages by weight or volume?) % BY WT

TiO_2	36.944
CELLULOSE ACETATE BUTYRATE	0.426
DESMOPHEN 650	29.977
SILICONE	0.034
MIBK ketone	1.276
ETHYL ACETATE	9.990
CELLOSOLVE ACETATE	21.359
	100.006

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ (Attach VP curve if available)

@ Max. Process Temp. _____

GAL WT 12.18 #/gal

~~Sp.Gr.~~ _____ pH _____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

CLEANUP WITH CELLOSOLVE ACETATE OR METHYL ETHYL KETONE

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

Haskell Number 5932

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division AUTOMOTIVE & INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical:
CLEAR POLY ISOCYANATE PORTION OF A 3 COMPONENT POLYURETHANE ENAMEL SYSTEM. RESIN IS A BIURET OF HEXAMETHYLENE DI ISOCYANATE. NCO CONTENT OF THIS DESMODUR N = 16-17% AS PURCHASED.

Synonym, Product Name and/or Designations:
IMRON® 836 ENAMEL - ACTIVATOR (COMPONENT B)

~~Formula~~: (SEE MIXING INSTRUCTIONS FOR 836-0185)

Sample: Code No. VG-219 Lot No. 9217-200B Amount 1 PINT

Grade _____ Color CLEAR Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient DESMODUR N 40.76% (WT. SOLIDS - ON TOTAL VG-219)

Composition, if a mixture (are percentages by weight or volume?)

DESMODUR N	54.34 % BY WT (40.76% SOLID DESMODUR N)
CELLOSOLVE ACETATE	11.13
ETHYL ACETATE	23.29
TOLUENE	11.24
	100.00

~~Impurities (Identity~~ and amounts; are percentages by weight or volume?)

NOTE: "DESMODUR N" IS 75% SOLIDS IN { CELLOSOLVE ACETATE - 12.5% / XYLENE - - - - 12.5%

Properties: MP ____ BP ____ VP ____ @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

GAL. WT ~~Sp. Gr.~~ 8.23 #/GAL pH _____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____
CLEANUP WITH CELLOSOLVE ACETATE OR METHYL ETHYL KETONE
Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000787

Haskell Number 5933

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division Automotive + Industrial Location Marshall Labs

Systematic Name of Chemical:
CATALYST AND "POT LIFE EXTENDER" FOR 3 COMPONENT POLYURETHANE ENAMEL SYSTEM.

Synonym, Product Name and/or Designations:
IMRON® 836 ENAMEL - DRY TIME ACCELERATOR

~~Formula:~~ (SEE MIXING INSTRUCTIONS FOR 836-0185)

Sample: Code No. VH-218 Lot No. 9217-200A Amount 2 FLUID OUNCES

Grade _____ Color _____ Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

DIBUTYL TIN DILAURATE 0.33
2,4 PENTANE DIONE 99.67
100.00 % BY WT

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

GAL WT 8.12 #/gal

~~Sp. Gr.~~ ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000788

Haskell Number 5935

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division AUTOMOTIVE # INDUST Location MARSHALL LAB

Systematic Name of Chemical: PIGMENTED PORTION OF 3 COMPONENT POLYURETHANE ENAMEL SYSTEM BASED ON RC-9070-184 RESIN - - - -
(STYRENE/METHYLMETHACRYLATE/HYDROXYETHYL ACRYLATE/PHTHALIC ANHYDRIDE/"CARDURA E"* IN RATIO 29.5/15/16.5/14/25 BY WT.

Synonym, Product Name and/or Designations:
EXPERIMENTAL POLYURETHANE ENAMEL - MODEL III B - WHITE PACKAGE A - MUST BE ACTIVATED AS FOLLOWS:

~~Formula~~: MIX RATIO (BY WT) { PACKAGE A 69.0; ACTIVATOR 26.7; PROMOTOR 4.3; 100.0 }

[SAMPLES ARE PREMEASURED FOR DIRECT MIXING TO 800 GRS TOTAL]

Sample: Code No. 9350-35C ~~Lot No.~~ PACKAGE A Amount 550 GRS IN QT CAN

Grade _____ Color WHITE Form _____ Mol. Wt. _____

Special Handling Requirements POT LIFE ABOUT 8 HRS

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?) BY WT.

TiO_2	28.1
(SOLIDS)-RC-9070-184 (S)	33.3
DTDL	TR
SILICONE	25.0 (25.0)
CELLOSOLVE ACETATE	
XYLENE	13.6
	100.0

~~Impurities~~ (Identity and amounts; are percentages by weight or volume?)

* CARDURA E IS GLYCIDYL ESTER OF VERSATIC 911 ACID
VERSATIC 911 ACID IS A MIXTURE OF SATURATED TERTIARY MONOCARBOXYLIC ACIDS HAVING A C_9, C_{10}, C_{11} CHAIN LENGTH.

Properties: MP _____ BP _____ VP _____ @ 25°C _____ (Attach VP curve if available)
@ Max. Process Temp. _____

Sp.Gr. _____ pH _____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____
CLEANUP - CELLOSOLVE ACETATE
Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000789

Haskell Number 5936

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department FTF Division AUTOMOTIVE + INDUST Location MARSHALL LAB

Systematic Name of Chemical: CLEAR ACTIVATOR PORTION OF 3 COMPONENT POLYURETHANE ENAMEL SYSTEM. RESIN IN THIS COMPONENT IS "DESMODUR" N

Synonym, Product Name and/or Designations:
EXPERIMENTAL POLYURETHANE ENAMEL - MODEL III B - ACTIVATOR

~~Formula:~~ (SEE 9350-35C PACKAGE A INFO. FOR MIXING RATIO)

Sample: Code No. 9350-35C ~~Lot No~~ ACTIVATOR Amount 215 GRS IN PT. CAN

Grade _____ Color CLEAR Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?) BY WT

XYLENE	4.3
DESMODUR N (SOLIDS)	25.8 37.1
CELLOSOLVE ACETATE	[redacted]
ETHYL ACETATE	32.8
	100.0

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000790

Haskell Number 5937

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F & F Division AUTOMOTIVE & INDUST. Location MARSHALL LAB

Systematic Name of Chemical:

2, 4, PENTANE DIONE (ACETYL ACETONE)
3RD COMPONENT OF 3 PKG. POLYURETHANE ENAMEL SYSTEM

Synonym, Product Name and/or Designations:

PROMOTOR FOR FRP. POLYURETHANE ENAMEL MODEL III B

~~Formula:~~ (SEE 9350-35C PACKAGE A MIXING INFO.)

Sample: Code No. 9350-35C ~~Lot No.~~ PROMOTOR Amount 35 GRS IN 20z BOTTLE

Grade _____ Color _____ Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

100% 2, 4, PENTANE DIONE

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP @ 25°C ____ (Attach VP curve if available)
@ Max. Process Temp. _____

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER)

DUP040000791

Haskell Number 5938

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department Ex F Division AUTOMOTIVE + INDUST. Location MARSHALL LAB

Systematic Name of Chemical: PIGMENTED POLYESTER PORTION OF A 2 COMPONENT POLY URETHANE ENAMEL SYSTEM.

Synonym, Product Name and/or Designations:
U.S. PAINT ALUMIGRIP ENAMEL #2099 - RED

Formula: MIX 1/1 BY VOL. WITH ALUMIGRIP CATALYST AA92-C-5 LET STAND FOR 30 MINS. BEFORE USE. THIS COLOR MIXES TO RIGHT SPRAY VISCOSITY WITHOUT FURTHER REDUCTION.

Sample: Code No. AA-92-R-1 Lot No. 80828 Amount 1 PINT

Grade ____ Color RED Form ____ Mol. Wt. ____

Special Handling Requirements POT LIFE ABOUT 8 HRS

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? ____

Active Ingredient ____ %

Composition, if a mixture (are percentages by weight or volume?)

PIGMENT	26.8 % (EXPERIMENTAL RESULTS)
BINDER	32.2
VOLATILE	41.0
	100.0 % BY WT

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ @ Max. Process Temp. ____ (Attach VP curve if available)

Measured Gal WT: 11.12 #/gal

Sp.Gr. ____ pH ____ Vapor Density (air = 1) ____

Flash Point (Open cup) ____ (Closed cup) ____

Solubility (Quantitative, if possible) in water ____ Acetone ____

CLEANUP WITH CELLOSOLVE ACETATE OR METHYL ETHYL KETONE

Ethanol ____ Vegetable oil ____ Other Solvents ____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER)

DUP040000792

Employee Exposure

1. Concentration of material in process _____
2. Solvent and other chemicals present _____
3. Is exposure by inhalation ____ skin absorption ____ other _____
4. Maximum temperature of material in process _____
5. Is the compound present in the atmosphere in the form of vapor _____ mist _____ dust _____
6. Maximum concentration likely to be present in atmosphere _____
7. What type of ventilation is in use? _____
8. What type of protective clothing is worn? _____
9. Exposure is for _____ hours _____ minutes per day

Consumer Exposure

	By Another Mfgr.	By Public
What is possibility of:		
1. Ingestion		
2. Inhalation		
3. Skin contact		
4. Eye contact		

Experience to Date

Have any clinical signs of toxicity such as headaches, difficulty in breathing, dizziness, nausea, skin or eye irritation, etc., been reported by persons who have been in contact with the chemical? If so, please list them and describe circumstances under which they occurred.

NOTE: Haskell Laboratory will retain the unused portion of stable, nonflammable, nonvolatile, low toxicity samples for 5 years unless requested to return to sender immediately after testing. After 5 years, the samples will be discarded or returned to the appropriate department. It is suggested that the sender also retain a suitably identified portion of the sample sent for toxicity evaluation for his own future reference.

Signature H H Fanning Date 12/12/62

DUP040000793

Haskell Number 5939

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department Ft F Division AUTOMOTIVE + INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical: CLEAR POLYISOCYANATE PORTION OF A 2 COMPONENT POLYURETHANE ENAMEL SYSTEM.

Synonym, Product Name and/or Designations:
U.S. PAINT "ALUMIGRIP" CATALYST (FOR AA-92-R-1 ENAMEL)

Formula: SEE ENAMEL AA-92-R-1 FOR MIX RATIO

Sample: Code No. AA92-C-5 Lot No. 80717 Amount 1 PINT

Grade _____ Color CLEAR Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

RESIN SOLIDS 40.0 % BY WT
VOLATILE 60.0
100.0

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ (Attach VP curve if available)
@ Max. Process Temp. _____

Measured Gal Wt: 8.29 #/gal
Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____
CLEANUP WITH CELLOSOLVE ACETATE OR METHYL ETHYL KETONE
Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER)

DUP040000794

Employee Exposure

1. Concentration of material in process _____
2. Solvent and other chemicals present _____
3. Is exposure by inhalation ____ skin absorption ____ other _____
4. Maximum temperature of material in process _____
5. Is the compound present in the atmosphere in the form of vapor ____ mist _____ dust _____
6. Maximum concentration likely to be present in atmosphere _____
7. What type of ventilation is in use? _____
8. What type of protective clothing is worn? _____
9. Exposure is for _____ hours _____ minutes per day

Consumer Exposure

	By Another Mfgr.	By Public
What is possibility of:		
1. Ingestion		
2. Inhalation		
3. Skin contact		
4. Eye contact		

Experience to Date

Have any clinical signs of toxicity such as headaches, difficulty in breathing, dizziness, nausea, skin or eye irritation, etc., been reported by persons who have been in contact with the chemical? If so, please list them and describe circumstances under which they occurred.

NOTE: Haskell Laboratory will retain the unused portion of stable, nonflammable, nonvolatile, low toxicity samples for 5 years unless requested to return to sender immediately after testing. After 5 years, the samples will be discarded or returned to the appropriate department. It is suggested that the sender also retain a suitably identified portion of the sample sent for toxicity evaluation for his own future reference.

Signature H H Fanning Date 12/6-40

DUP040000795

Haskell Number 5940

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department Fy F Division AUTOMOTIVE + INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical: PIGMENTED PORTION OF 2 COMPONENT EPOXY ENAMEL SYSTEM. RESIN IS EPON 1001-KX-72 (SOLUTION OF CONDENSATION POLYMER OF EPICHLORHYDRIN AND BIS PHENOL; 72% IN CELLOSOLVE AND XYLOL 50-50)

Synonym, Product Name and/or Designations:

CORLAR® EPOXY CHEMICAL RESISTANT ENAMEL - WHITE

Formula: USE: ACTIVATE BEFORE USE - MIX 1/1 BY VOLUME WITH VG-P339 AND LET STAND FOR INDUCTION PERIOD OF 1 HR. @ 70-90°F (OR 2 HRS @ 55-70°F). THIN 5-10% BY VOL. WITH T-3871 BEFORE SPRAYING

Sample: Code No. 823-8022 Lot No. P-620023 Amount 1 PINT

Grade _____ Color WHITE Form _____ Mol. Wt. _____

Special Handling Requirements POT LIFE ABOUT 72 HOURS

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

TiO2 Spanish! PIGMENT	46.36	% BY WT	XYLOL	15.9 %
BINDER	24.45		ETHYLENE GLYCOL MONOETHYL ETHER	7.1
VOLATILE	29.19		HYDROCARBON SOLV.	5.7
	100.00		BUTYL ALCOHOL	0.5
				29.2

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ @ Max. Process Temp. ____ (Attach VP curve if available)

Gal wt: 12.63 #/gal

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

CLEANUP WITH T-3871

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000796

Haskell Number 5941

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division AUTOMOTIVE + INDUSTRIAL Location MARSHALL LABS

Systematic Name of Chemical: CLEAR PORTION OF 2 COMPONENT EPOXY ENAMEL SYSTEM. RESIN IS VERSAMID 140 (CONDENSATION POLYMER OF POLYMERIZED UNSATURATED FATTY ACID + ALIPHATIC AMINES)

Synonym, Product Name and/or Designations:

CORLAR EPOXY CHEMICAL RESISTANT ENAMEL - ACTIVATOR

~~Formula~~: (USE WITH 823-8022)

Sample: Code No. VG-8339 Lot No. P-610576 Amount 1 PINT

Grade _____ Color CLEAR Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

RESIN 40
VOLATILE 60
100% BY WT

CELLOSOLVE ACETATE 6.0
XYLOL 54.0
60%

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

GAL WT. 7.54 #/gal

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000797

Haskell Number 5942

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F+F Division AUTOMOTIVE + INDUSTRIAL Location MARSHALL

Systematic Name of Chemical:

Synonym, Product Name and/or Designations:
THINNER FOR "CORLAR" EPOXY CHEM. RESISTANT COATINGS

Formula:

Sample: Code No. T-3871 Lot No. _____ Amount 1 PINT

Grade _____ Color _____ Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

XYLENE	84.0	ACETONE	3.3
DIACETONE ALCOHOL	6.1	MIBK	1.1
ETHYLENE GLYCOL MONOETHYL ETHER	5.1	TOLUENE	0.5
			100.0 % BY WT

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP ____ @ 25°C ____ (Attach VP curve if available)

@ Max. Process Temp. _____

GW: 7.24 #/gal

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000798

Haskell Number 5945

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department FFF Division AUTOMOTIVE / INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical: PIGMENTED PORTION OF 3 COMPONENT POLYURETHANE ENAMEL SYSTEM BASED ON MMA/HEA RESIN 399E-119 (METHYL METH ACRYLATE 70 / HYDROXY ETHYL ACRYLATE 30)

Synonym, Product Name and/or Designations:

EXPERIMENTAL POLYURETHANE ENAMEL MODEL III C - WHITE PACKAGE A

Formulation MIXRATIO (BY WT) { PACKAGE A 71.0; ACTIVATOR 23.5; PROMOTOR 5.5; 100.0 }

NO REDUCTION
NO INDUCTION

[SAMPLES ARE PREMEASURED FOR DIRECT MIXING TO 400 GRAMS]

Sample: Code No. 9350-37 ~~Lot No~~ PACKAGE A Amount 284 ~~568~~ GRS IN ½ PT CAN

Grade _____ Color _____ Form _____ Mol. Wt. _____

Special Handling Requirements POT LIFE APPRX 8 HRS

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?) BY WT.

TiO_2	30.7
399E-119 (SOLIDS)	31.2
DTDL SILICONE	TRACE
BUTYL ACETATE	17.6
CELLOSOLVE ACETATE	20.5
	100.0

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP @ 25°C ____ @ Max. Process Temp. ____ (Attach VP curve if available)

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

CLEANUP WITH CELLOSOLVE ACETATE

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER) DUP040000799

Employee Exposure

1. Concentration of material in process _____
2. Solvent and other chemicals present _____
3. Is exposure by inhalation ____ skin absorption ____ other _____
4. Maximum temperature of material in process _____
5. Is the compound present in the atmosphere in the form of vapor _____ mist _____ dust _____
6. Maximum concentration likely to be present in atmosphere _____
7. What type of ventilation is in use? _____
8. What type of protective clothing is worn? _____
9. Exposure is for _____ hours _____ minutes per day

Consumer Exposure

	By Another Mfgr.	By Public
What is possibility of:		
1. Ingestion		
2. Inhalation		
3. Skin contact		
4. Eye contact		

Experience to Date

Have any clinical signs of toxicity such as headaches, difficulty in breathing, dizziness, nausea, skin or eye irritation, etc., been reported by persons who have been in contact with the chemical? If so, please list them and describe circumstances under which they occurred.

NOTE: Haskell Laboratory will retain the unused portion of stable, nonflammable, nonvolatile, low toxicity samples for 5 years unless requested to return to sender immediately after testing. After 5 years, the samples will be discarded or returned to the appropriate department. It is suggested that the sender also retain a suitably identified portion of the sample sent for toxicity evaluation for his own future reference.

Signature H H Fanning Date 12/20/60

DUP040000800

Employee Exposure

1. Concentration of material in process _____

2. Solvent and other chemicals present _____

3. Is exposure by inhalation ____ skin absorption ____ other _____

4. Maximum temperature of material in process _____

5. Is the compound present in the atmosphere in the form of vapor _____ mist _____ dust _____

6. Maximum concentration likely to be present in atmosphere _____

7. What type of ventilation is in use? _____

8. What type of protective clothing is worn? _____

9. Exposure is for _____ hours _____ minutes per day

Consumer Exposure

	By Another Mfgr.	By Public
What is possibility of:		
1. Ingestion		
2. Inhalation		
3. Skin contact		
4. Eye contact		

Experience to Date

Have any clinical signs of toxicity such as headaches, difficulty in breathing, dizziness, nausea, skin or eye irritation, etc., been reported by persons who have been in contact with the chemical? If so, please list them and describe circumstances under which they occurred.

NOTE: Haskell Laboratory will retain the unused portion of stable, nonflammable, nonvolatile, low toxicity samples for 5 years unless requested to return to sender immediately after testing. After 5 years, the samples will be discarded or returned to the appropriate department. It is suggested that the sender also retain a suitably identified portion of the sample sent for toxicity evaluation for his own future reference.

Signature H.H. Fanning Date 12/12/68

DUP040000801

Haskell Number 5946

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department F & F Division AUTOMOTIVE & INDUSTRIAL Location MARSHALL LAB

Systematic Name of Chemical: CLEAR ACTIVATOR PORTION OF A 3 PACKAGE POLYURETHANE ENAMEL SYSTEM. RESIN IN THIS COMPONENT IS DESMODUR N.

Synonym, Product Name and/or Designations:
EXPERIMENTAL POLYURETHANE ENAMEL MODEL III C - ACTIVATOR

Formula: (SEE 9350-37 PACKAGE A FOR MIX. INFO.)

Sample: Code No. 9350-37 ~~Lot No~~ ACTIVATOR Amount ~~188~~ 94 GRS IN ½ PT. CAN

Grade _____ Color CLEAR Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?) BY WT

DESMODUR N (SOLIDS)	49.8
XYLENE	8.4
CELLOSOLVE ACETATE	25.0
ETHYL ACETATE	16.8
	100.0

Impurities (Identity and amounts; are percentages by weight or volume?)

Properties: MP ____ BP ____ VP @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER)

DUP040000802

Haskell Number 5947

HASKELL LABORATORY FOR TOXICOLOGY AND INDUSTRIAL MEDICINE

SAMPLE SUBMITTED FOR TOXICITY EVALUATION

Department FFF Division AUTOMOTIVE INDUST Location MARSHALL LAB

Systematic Name of Chemical:
2,4 PENTANE DIONE (ACETYL ACETONE)
3RD COMPONENT OF 3 PKG POLYURETHANE ENAMEL SYSTEM.

Synonym, Product Name and/or Designations:
PROMOTOR FOR EXP. POLYURETHANE ENAMEL MODEL III C

Formula: (SEE 9350-37 PACKAGE A FOR MIXING INFO.)

Sample: Code No. 9350-37 ~~Lot No~~ PROMOTOR Amount 23 47 GRS IN 2 OZ BOTTLE

Grade _____ Color _____ Form _____ Mol. Wt. _____

Special Handling Requirements _____

Is it explosive in air? ____ in oxygen? ____ If so, at what concentrations? _____

Active Ingredient _____ %

Composition, if a mixture (are percentages by weight or volume?)

100% 2,4 PENTANE DIONE

Impurities (identity and amounts; are percentages by weight or volume?)

/

Properties: MP ____ BP ____ VP @ 25°C ____ @ Max. Process Temp. _____ (Attach VP curve if available)

Sp.Gr. ____ pH ____ Vapor Density (air = 1) _____

Flash Point (Open cup) _____ (Closed cup) _____

Solubility (Quantitative, if possible) in water _____ Acetone _____

Ethanol _____ Vegetable oil _____ Other Solvents _____

Proposed Use:

Present Stage of Development: Research ____ Semiworks ____ Mfg. ____ Sales ____

(OVER)

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