



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

WILMINGTON, DELAWARE 19898

CENTRAL RESEARCH & DEVELOPMENT DEPARTMENT

HASKELL LABORATORY

FOR

TOXICOLOGY AND INDUSTRIAL MEDICINE

bcc: C. F. Reinhardt/B. C. McKusick
F. A. Bower
B. Ramirez

C-01036

May 3, 1979

Mr. Robert Hyatt
100 1/2 Seventh Cabrillo Highway
Montara Beach, CA 94037

Dear Mr. Hyatt:

Attached is product information on Centari which you requested. Dr. Ramirez told me you used Centari for work. I would appreciate it if you could send me a note describing conditions under which you use Centari, i.e., quantity; workplace, indoors or outside; type of objects painted; etc.

Thank you,

Sincerely yours,

Neil Krivanek, Ph.D.
Consultant

NDK/daw
Attachment

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

05-0392-0006

N38518

FOR INDUSTRIAL USE ONLY
by professional, trained
personnel. Not for
sale to or use by the
general public.

NON-PHOTOCHEMICALLY REACTIVE



793 S

CENTARI[®]
Acrylic Enamel
OVERALL
Gloss Hardener

DANGER! VAPOR AND SPRAY MIST HARMFUL.
MAY CAUSE LUNG IRRITATION AND ALLERGIC
RESPIRATORY REACTION.

MAY IRRITATE SKIN AND EYES. FLAMMABLE.

CONTAINS ALIPHATIC POLYISOCYANATES AND ESTER SOLVENTS.

Use only with adequate ventilation.

If engineering and administrative controls of air contaminants are not feasible, wear an air line respirator (TC-19C NIOSH/MESA, or equivalent) during application and until work area has been exhausted of all vapor and spray mist. If air line respirators are not feasible and the atmospheric concentration of monomeric isocyanates is less than 10 times the allowable time weighted average, wear a vapor/particulate respirator (TC-23C NIOSH/MESA, or equivalent) recommended by the manufacturer for use with isocyanate vapors and mists. Individuals with chronic respiratory problems or prior allergic respiratory reaction to isocyanates must not be exposed to vapors or spray mist containing isocyanates.

Avoid breathing vapor or spray mist. Avoid contact with eyes and skin.

Keep away from heat, sparks and open flame. Keep container closed when not in use. Do not transfer contents to bottles or other unlabeled containers.

FIRST AID: If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician. In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for at least 15 minutes and call a physician. If swallowed, CALL A PHYSICIAN IMMEDIATELY. Induce vomiting.

KEEP OUT OF REACH OF CHILDREN.

DIRECTIONS FOR USE: CENTARI 793 S is a two-part system. Mix equal parts of Part A (Acrylic Enamel) and Part B (Gloss Hardener) in a clean, dry container. Stir thoroughly. Apply with brush or spray. Allow to dry. Do not use if the product has been stored for more than 12 months. For more information, contact your nearest DuPont representative.

Made in U.S.A. R-005-017-0776

ONE GALLON 3.785 Liters

E. I. DU PONT DE NEMOURS & CO. (INC.) Wilmington, Delaware 19898

05-0392-0007

N38518.01

DUP050049947

DUPONT CENTARI ACRYLIC ENAMEL

CONTAINS TOLUENE, XYLENE AND PETROLEUM DISTILLATES.

Keep away from heat, sparks and open flame. Avoid prolonged breathing of vapor or spray mist and prolonged or repeated contact with skin. Keep container closed when not in use. Wash hands thoroughly after using and before eating or smoking. USE ONLY WITH ADEQUATE VENTILATION.

WASH AND IN CASE OF SKIN CONTACT, flush with plenty of water; for eyes, flush with plenty of water for 15 minutes and get medical attention. If affected by inhalation of vapor, remove to fresh air. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting.

IMPORTANT: When mixed with 792 S and 792 S, mixture will have hazards of both components. Observe all applicable precautions. Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on those exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, in which children may be commonly exposed. KEEP OUT OF THE REACH OF CHILDREN.

DIRECTIONS FOR USE—SEE INSTRUCTIONS TO SECURE PROPER MIXING—STIR REQUIRED MATERIAL PRIOR TO APPLICATION

ORIGINAL FINISHING: Reduce CENTARI Acrylic Enamel to 10-22 seconds viscosity (Use Post Viscosity Cup), or about 50% (2 parts color to 1 part reducer). Above 70°F., use 8022 S Acrylic Enamel Reducer. Below 70°F., use 8022 S Acrylic Enamel Reducer.

For best results, and maximum gloss, add 1 pt. of 792 S Centari Gloss Hardener to each gallon of color. Put the 1-2-4 hrs. Close all spray equipment immediately after use with lacquer thinner.

Use 30-45 lbs. pressure at the gun (jet gun equipment). Apply three full wet coats—no additional flash between coats is necessary. If ret-coating is needed for metallics, mix-coat as you preparing the final coat.

REPAIR: Reduce CENTARI Acrylic Enamel to 10-22 seconds viscosity (Use Post Viscosity Cup), or about 50% (2 parts color to 1 part reducer). Below 65°F., use 8022 S Acrylic Enamel Reducer. Above 65°F., use 8022 S Acrylic Enamel Reducer.

FINISHING BASE MEAN:
 61 Trucoat.
 62 Apply two reading coats of Du Pont Multi-Purpose Primer-Surface. Then use as a primer if no surfacing is required.
 63 Use Du Pont "Spot 'N' Glaze" Putty to fill remaining imperfections.

FORCE DRYING: CENTARI Acrylic Enamel may be force dried without the use of an additive.

THINNING: Up to 15% of CENTARI Mixing Enamel may be used.

STRIPING, LETTERING AND DECALCOMATIONS: Allow CENTARI Acrylic Enamel to dry at least four hours before striping, lettering or applying decals.

WAXING: Allow about thirty days for CENTARI Acrylic Enamel to harden before waxing.

For industrial use only by professional, trained personnel. Not for sale to or use by the general public.

SCREWDRIVING OVER ANY ORIGINAL FINISH

64 Close all painted surfaces with Du Pont PREP-SOL "Solvent".

65 Feather-edge broken areas with sandpaper.

66 Treat bare metal and rust areas with Du Pont Metal Conditioner and Conversion Coating, depending on the type of metal.

67 Spot spray bare metal with Du Pont Multi-Purpose Acrylic Lacquer Primer-Surface, Hi-Speed Lacquer Primer-Surface or PREPAREDIEP. Fill remaining imperfections with Du Pont "Spot 'N' Glaze" Putty. For uniform color buildup and to prevent sandblasting swelling, Du Pont 2129 S Universal Solvent, Thinned, Multi-Purpose Primer-Surface or a Non-Sanding Primer-Sealer may be used.

SEE INDIVIDUAL LABEL DIRECTIONS FOR USE OF THE OTHER DU PONT PRODUCTS NAMED ABOVE.
 Made in U.S.A.

E. I. DU PONT DE NEMOURS & CO. (INC.), Wilmington, Delaware 19888



CENTARI
 ACRYLIC ENAMEL

PHOTOCHEMICALLY
 REACTIVE

**99A
 PITCH BLACK**

WARNING!
 FLAMMABLE VAPOR HARMFUL
 CONTAINS LEAD DRIED FILM OF THIS PAINT
 MAY BE HARMFUL IF EATEN OR CHEWED

See instructions on back panel.

0.946 LITER

QUART

05-0392-0008

DUP050049948



IMRON® POLYURETHANE ENAMEL

REFINISH SALES

USE: A high-gloss, extremely durable, chemical and solvent-resistant, air-dry material both in solid and metallic colors for use on aircraft, commercial vehicles, boats, fleets, passenger cars and other applications where exposure to severe conditions exists.

DESCRIPTION: A multi-component product consisting of a pigmented base and activator. Companion products are an optional Dry Time Accelerator 189 S, 259 S Imron® Additive for fish-eyes and 8485 S Imron® Reducer.

PERFORMANCE DATA: Excellent color and gloss retention, chip resistance, abrasion resistance, stain and mar resistance. Excellent chemical and solvent resistance. Outstanding resistance to yellowing. Excellent cleanability. Optional faster drying rate.

% SOLIDS BY WEIGHT: 47.5% as mixed. (This is an average value which will vary with color selected.)

% SOLIDS BY VOLUME: 34.0% as mixed. (This is an average value which will vary with color selected.)

DRYING RATE: Tape free: @ 77°F., 50% Rel. Humidity: 6-10 hours without accelerator. 2-4 hours with accelerator.

THEORETICAL COVERAGE: 544 sq. ft. at 1 mil. (This is an average value which will vary with color selected.)

RECOMMENDED FILM THICKNESS: 1.8 to 2.2 mils dry film thickness.

POT LIFE: 8 hours minimum at 70-75°F.

FLASH POINT: Below 80°F.

DIELECTRIC STRENGTH: Approximately 2 kilovolts per mil over steel, 8 kilovolts per mil over fiberglass for solid colors. Metallics have much lower values.

REDUCTION RATIO: Mix three parts IMRON Polyurethane Enamel with 1 part 192 S Activator. Four ounces per gallon 189 S Accelerator can be added to increase drying rate. Two to four oz./gal. of 259 S Imron® Additive should be added to prevent fish-eyes. For spraying of large areas material may be reduced further with 8485 S Imron® Reducer or 3979 S Retarder.

APPLICATION:

1. Treat bare metal with Du Pont's recommended metal treatment system. Bare fiberglass should be scuff-sanded and solvent wiped with 3812 S.
2. Follow with CORLAR® Epoxy Zinc Chromate Primer or Multi-Purpose Primer.
3. OEM finishes (except lacquers) and aged alkyd or acrylic enamels should be cleaned with 3919 S PREP-SOL® and sanded thoroughly with #360 wet or dry sandpaper. Small bare areas can be primed with Multi-Purpose primer surfacer.
4. For solid colors spray a medium first coat. Allow to tack up and follow with full second coat.
5. For metallic colors apply a light medium coat as a tack coat. Allow to set up 20 minutes, then apply a second light medium coat. Then reduce 15% with 8485 S (17-18 seconds #2 Zahn Cup) and apply third light medium coat. If desired, another light medium coat of reduced material may be used.
6. Both solid and metallic colors can be clear coated with Imron® 500 S Clear.

RECOMMENDED SPRAY EQUIP.:

Type	Brand	Model #	Fluid & Air Nozzles	Needle	Retaining Ring
Siphon	Binks	#7*	36 x 36 SD	33	
	Devilbiss	MBC510*	30	EX	
Pressure	Binks	#7*	33B x 33P	33	54-704
	Devilbiss	MBC510*	704	FX	MBC368
Airless	Norden	Versagun*		06C11	
*or equivalent				(.015 Restrictor)	

(over)

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RECOMMENDED AIR PRESSURE:

Type	Pressure at Gun	Pot Pressure
Siphon	50-55 lbs. for solids 60-65 lbs. for metallics	
Pressure	60-70 lbs.	10-15 lbs.
Airless		2000 psi

RECOMMENDED SPRAYING VISCOSITY:

20-22 secs. #2 Zahn Cup for solid colors.

17-19 secs. #2 Zahn Cup for metallic colors.

SAFETY PRECAUTIONS: WARNING!

FLAMMABLE. BREATHING OF VAPOR MAY CAUSE IRRITATION. CONTAINS LEAD. DRIED FILM OF THIS PAINT MAY BE HARMFUL IF EATEN OR CHEWED.

Contains ester solvents.

Keep away from heat, sparks and open flame. Avoid prolonged or repeated breathing of vapor or spray mist and contact with eyes and skin. Keep container closed when not in use.

FIRST AID: In case of skin contact, flush with plenty of water; for eyes, flush with plenty of water for 15 minutes and get medical attention. If affected by inhalation of vapor, remove to fresh air. If swallowed, **CALL A PHYSICIAN IMMEDIATELY.** Induce vomiting.

KEEP OUT OF THE REACH OF CHILDREN. USE ONLY WITH ADEQUATE VENTILATION.

Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on those exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed.

IMPORTANT: WHEN MIXED WITH 192 S, MIXTURE WILL HAVE HAZARDS OF BOTH COMPONENTS. OBSERVE ALL APPLICABLE PRECAUTIONS.

DANGER!

**VAPOR AND SPRAY MIST HARMFUL.
MAY CAUSE LUNG IRRITATION AND ALLERGIC RESPIRATORY REACTION.
MAY IRRITATE SKIN AND EYES.**

FLAMMABLE.**HARMFUL OR FATAL IF SWALLOWED.**

Contains aliphatic polyisocyanates and ester solvents.

Use only with adequate ventilation.

If engineering and administrative controls of air contaminants are not feasible, wear a vapor/particulate respirator (NIOSH/MESA Approval No. TC-23C-53 or equivalent) during application and until the work area has been exhausted of all vapor and spray mist. Individuals with chronic respiratory problems or prior allergic respiratory reaction to isocyanates must not be exposed to vapors or spray mist containing isocyanates.

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KEEP OUT OF REACH OF CHILDREN.

E. I. DU PONT DE NEMOURS & CO. (INC.) • REFINISH SALES • WILMINGTON, DE 19898

E-08001

Printed in U.S.A.

05-0392-0010

DUP050049950

C-1036

@Centari 792-S Polyurethane Activators;

@Centari 792-S Hardener;

Contains Ethyl acetate; Aliphatic
polyisocyanate; Xylol; &
Cellulosolve acetate;

@Centari 793-S Hardener;

Contains Polymeric diisocyanate; Xylene;
Butyl carbitol; Hydroxybenzophenone;
& Tricresyl phosphate;

@Centari Acrylic Enamel;

@Lucite Acrylic Lacquer;

Contains Toluene; Acrylic resin;
Acetone; Titanium dioxide; Coconut oil/
Ethylene glycol; & Cellulose acetate
butyrate;

@Dulux Enamel;

Contains Alkyd resins; Aromatic
hydrocarbons; Aliphatic hydrocarbons;
VM and P Naphtha; Some alkyd resins;
& Xylene;

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