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MATERIAL SAFETY DATA SHEET

SYNTHETIC ENAMEL, TRACTOR AND IMPLEMENT ENAMELS ALUMINUM PAINTS, SPATTER FINISHES

Section I

Manufacturer
E. I. du Pont de Nemours & Co. (Inc.)
Automotive Products Department
Wilmington, Delaware 19898

Telephone: Product information (800) 441-7515 Medical emergency (800) 441-3637 Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Synthetic Enamel, 250S, 252S, 253S, 256S, 257S, 389S, 781S, 789S

D.O.T. Hazard Class: Flammable Liquid Paint UN 1263

Hazardous Materials Identification System: 781S, 789S: H = 2, F = 3, R = 1. All others: H = 2, F = 3, R = 0.

Section II — Hazardous Ingredients (See Section X for ingredients by product code)

| Ingredients 1. Butyl acetate | CAS No. 123-86-4 | Vapor Pressure (20°C mm Hg.) 8 | Exposure Limits* 150ppm-A,O; |
|--|-------------------------|---|---|
| 2. Acetone | 67-64-1 | 184 | 200ppm-A-(STEL) 750ppm-A; 1000ppm-0; 1000ppm-A-(STEL) |
| 3. Methyl ethyl ketone | 78-93-3 | 71 | 200ppm-A,0; |
| 4. Toluene | 108-88-3 | 36.7 | 300ppm-A-(STEL) 100ppm-A; 200ppm-O; 150ppm-A-(STEL); 300ppm-O-C 500ppm-O Max 10 Min |
| 5. Xylene | 1330-20-7 | 25 | 100ppm-A,0; 150ppm-A-(STEL) |
| 6. Aromatic hydro- carbons | 64742-95-6 | 10 | 25ppm-0; 50ppm-D |
| 7. VM&P naphtha | 64742-89-8 | 15 | 100ppm-D; 300ppm-A; 500ppm-0 |
| 8. Medium mineral spirits | 64742-88-7 | 10 | 100ppm-A,D; 500ppm-0 |
| 9. Aluminum 10. Carbon black 11. Lead chromate | 7429-90-5 1333-86-4 | None None | 10mg/m³-A 3.5mg/m³-A,0 |
| molybdate | 12656-85-8 | None | 150 μg/m³-A-Pb; 50 μg/m³-O-Pb; 50 μg/m³-O-Cr; |
| 12. Lead chromate | 18454-12-1 | None | 100 μg/m³-O-Cr 150 μg/m³-A-Pb; 50 μg/m³-O-Pb; 50 μg/m³-O-Cr; |
| 13. Lead | 7439-92-1 | None | 100 μg/m³-O-Cr 150 μg/m³-A; 50 μg/m³-O-Cr |
| 14. Titanium dioxide | 13463-67-7 | None | 10.0mg/m³-A; 15mg/m³-0 |

| 15. Dibutyl tin | | | |
|--------------------|------------|----------|--------------------------|
| dilaurate | 77-58-7 | .2 | .1mg/m ³ -A,0 |
| 16. Alkyd resins | 67922-67-2 | None | Unknown |
| 17. Linseed oil | 8001-26-1 | None | 10mg/m³-A |
| 18. 2, 4 Pentane- | | | O, |
| dione | 123-54-6 | 7 | Unknown |
| 19. Lead Drier | 61790-14-5 | None | 150 g/m³-A, |
| | | | 50 g/m³-0 |
| 20. Phthalocyanine | | | |
| blue pigment | 147-14-8 | None | 10mg/m³-D |
| 21. Toluidine | a di ji | | |
| pigment | None | None | Unknown |
| 22. Iron oxide | 1309-37-1 | None | Unknown |
| 23. Phthalocyanine | | | |
| green pigment | t None | None | 10mg/m³-D |
| 24. Acrylic | | | |
| copolymer | 96591-17-2 | None | Unknown |
| 25. Quinacridone | | er#s | |
| pigment | 1047-16-1 | None | 10mg/m³-D |
| 26. Perylene | | | 7.40 |
| pigment | ¹Nоле ु∗ | None 🛂 🖯 | Unknown |
| 27. Ester gum | None | None 💮 | Unknown |
| ** ** | T07 0 001 | | Arm Arm |

*A = ACGIH TLV, O = OSHA, D = Du Pont Internal Limit, S = Supplier Furnished Limit, STEL = Short Term Exposure Limit (15 mins.), C = Ceiling

Section III - Physical Data

Evaporation Rate: Slower than ether

Solubility in water: Miscible Vapor Density: Heavier than air Boiling Range: 54°F-218°F

Gal. Wt. (#/gal): 7.63-9.03

Volume % Volatile: 59.2-69.9%

Weight % Volatile: 49.1-61.8%

V.O.C. — (#/gal): 3.8-5.4

Section IV — Fire & Explosion Data

Flash Point (Closed Cup): 73-100°F Approx. flammable limits: 0.8-13.1%

Extinguishing media: Foam, carbon dioxide, dry chemical Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V — Health Hazard Data

General effects

Ingestion: Gastro-intestinal distress.

In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high.

If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult

a physician.

Skin or eye contact: May Gause fritation or burning of the eyes.
Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician.

In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

Specific effects

Butyl Acetate: Extremely high concentrations have caused blood changes and weakness in laboratory animals. Methyl Ethyl Ketone: High concentrations have caused embryotoxic effects in laboratory animals. Methyl Ethyl Ketone (MEK) has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either N-Hexane or Methyl N-Butyl Ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. Toluene: Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Xylene: High concentrations have caused embryotoxic effects in laboratory animals. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. VM&P Naphtha and Medium Mineral Spirits: Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown significant increases of kidney damage nor kidney or liver tumors. Lead Chromate Molybdate, Lead Chromate, Lead and Lead Drier: Overexposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA Lead Standard 29CRF1910.1025 for exposures longer than 8 hours. The OSHA exposure limit is reduced by this formula: Limit (in $\mu g/m^3)=400$ /hours worked in the day. These pigments are NTP carcinogens. Lead can be absorbed through the skin in harmful amounts. Titanium Dioxide: In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. Dibutyl tin dilaurate: Causes eye corrosion and permanent injury. Contact may cause skin burns. Can be absorbed through the skin in harmful amounts. 2,4 Pentanedione: Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system and the red blood cell forming system.

Section VI --- Reactivity Data

Stability: stable

Incompatibility (materials to avoid): none reasonably foreseeable Hazardous decomposition products: CO, CO₂, smoke, oxides of heavy metals reported in Section II

Hazardous polymerization: will not occur

Section VII — Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear a properly fitted vapor/particulate respirator (NIOSH/MSHA TC-23C). Confine and remove with inert absorbant.

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in

accordance with federal, state, and local requirements. Do not incinerate in closed containers.

Section VIII — Special Protection Information

Respiratory: Do not breathe vapors or mists.

Wear a properly fitted NIOSH/MSHA approved paint spray respirator (TC-23C) during application and until all vapors and spray mists are exhausted. In confined spaces or in situations where continuous spray operations are typical or if proper respirator fit is not possible, or if this product is used with an isocyanate additive (Dulux® Plus), wear a positive pressure, supplied-air respirator (TC-19C). Refer to the additive label and MSDS for further information. In all cases, follow the respirator manufacturer's directions for respirator use; do not permit anyone without protection in the painting area.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements. Protective clothing: Neoprene gloves and coveralls are

recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

Section IX — Special Precautions

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Section X — Hazardous Ingredients by Product Code

| Product Code | Ingredients (See Section II) |
|----------------------------------|---|
| 85101Q, 85102Q, 85103Q, 85106Q | 2, 4, 5, 6, 7, 8, 14, 16, 19 |
| 85104Q, 85303Q, 85304Q 85201Q | 2, 4, 5, 6, 7, 8, 12, 14, 16, 19 2, 4, 5, 6, 7, 8, 14, 16, 19, 20 |
| 85202Q | 2, 4, 6, 7, 8, 16, 19, 20 |
| 85305Q | 2, 4, 5, 6, 7, 8, 11, 12, 16, 19 |
| 85306Q | 2, 4, 5, 6, 7, 8, 11, 12, 14, 16, 19 |
| 85402Q | 2, 4, 6, 7, 8, 16, 19, 21 |
| 85403Q | 2, 4, 6, 7, 8, 12, 16, 19, 21 |
| 85151Q, 85154Q, 85251Q, 85252Q | 2, 4, 5, 6, 7, 8, 9, 16, 19 |
| 85253Q | 2, 4, 5, 6, 7, 8, 16, 19, 20 |
| 85351Q | 2, 4, 5, 6, 7, 8, 16, 19, 23 |
| 85353Q 85354Q | 1, 2, 3, 4, 5, 6, 7, 8, 16, 19, 24 |
| 85451Q | 1, 2, 3, 4, 5, 6, 7, 8, 16, 19, 22, 24 1, 2, 3, 4, 5, 6, 7, 8, 16, 19, |
| 00-014 | 22, 24, 25 |
| 85551Q | 2, 4, 5, 6, 7, 8, 16, 19, 26 |
| 250S | 5, 6, 7, 8, 11, 12, 16, 19, 22 |
| 252S | 5, 6, 7, 8, 14, 16, 19 |
| 2538 | 5, 6, 7, 8, 16, 19, 21 |
| 256S | 5, 6, 7, 8, 10, 16, 19 |
| 389-259 7816 | 15, 18 5 6 9 0 16 17 27 |
| 781\$ 789\$ | 5, 6, 8, 9, 16, 17, 27 8, 9, 16 |
| 257S | 5, 6, 7, 8, 10, 13, 14, 16 |
| 85152Q | |

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

"The following notice is required by California Proposition 65. 'Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm."

Product Manager Refinish Sales