

May 1, 1970

Mr. Ronald G. Barlow, Industrial Hygienist
Occupational Health Program
Paducah-McCracken Co. Health Dept.
P.O. Box 1059
Paducah, Kentucky 42001

Dear Mr. Barlow:

Your letter of March 17, 1970 to the Du Pont Company, regarding 3919-S Prep. Solvent, 228-S Spot and Glaze Lacquer Putty, 606-S Extra Fine Polishing Compound and Red Oxide Lacquer Type Primer Surfacers, has been referred to me for reply. We have been unable to identify the materials listed as "Red Oxide" and "Platinum Oxide".

3919-S Prep. Solvent

Contains mineral spirits and aromatic hydrocarbons. Mineral spirits are widely used paint solvents containing mixed hydrocarbons of low aromatic content. Like many other solvents, it can cause dermatitis due to defatting of the skin. According to F. A. Patty (Industrial Hygiene and Toxicology, Second Revised Edition, Vol. II, Interscience Publishers, New York, 1963), "Pharmacologically and toxicologically, these mixtures are qualitatively comparable with heptanes and octanes.". Inhalation of high vapor concentration of heptane and octane can produce narcosis and dizziness in men. According to the American Conference of Governmental Industrial Hygienists, the TLV for both heptane and octane is 500 ppm.

The mixture of aromatic hydrocarbons present in 3919-S is considered no more toxic than toluene and xylene. Inhalation of the concentrated vapors can produce signs indicative of respiratory irritation and central nervous system action.

In summary, care should be taken that 3919-S is used in a well ventilated area. Skin and eye contact with this material should be avoided and if accidental contact occurs, the area involved should be flushed with water.

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228-S Spot and Glaze Lacquer Putty

	<u>Weight %</u>
Pigments and Fillers	
Iron oxide	2.0
Barytes	12.6
Talc	42.1
Resins	
Nitrocellulose lacquer	5.8
Ester gum	7.0
Castor oil	1.1
Dibutyl phthalate	1.6
Primary Solvents	
Butyl acetate	6.6
Xylene	4.5
Acetone	3.7
Toluene	3.5
Methyl isobutyl ketone	2.8
Minor Solvents (less than 2% present)	
Ethanol	
Petroleum Naphtha	
Methyl isobutyl ketone	
Isopropyl alcohol	
Ethylene glycol monoethyl ether acetate	

606-S Extra Fine Polishing Compound

Silica	45.0
Caustic soda	0.6
Kerosene	22.9
Tall oil	4.2
Pine oil	2.2
Water	<u>25.1</u>
	100.0

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Red Oxide Primer Surfacer

	<u>Weight %</u>
Pigments and Fillers	
Molasse black	1.2
Iron oxide	8.0
Talc	24.4
Cab-o-sil	1.0
Resins	
Ester gum	8.3
Castor oil	1.0
Dibutyl phthalate	2.6
Nitrocellulose lacquer	8.2
Solvents	
Butyl acetate	5.0
Petroleum naphtha	3.3
Acetone	8.7
Methanol	2.9
Toluene	19.1
Isopropyl alcohol	5.7
Phosphoric acid 85%	0.3
Water	0.3
	<u>100.0</u>

I trust this information will be adequate for your purposes. It is understood that the information divulged here will be kept in strict confidence.

If I can be of further service, please contact me.

Very truly yours,

W. W. Miller
Toxicity Coordinator

WWM/dmp