

DIMENSION[®] PRO 5.0 Urethane

D5-L/W

MATERIAL SAFETY DATA SHEET

2007

Section 1 -- Product and Company Identification

PRODUCT NUMBER	HMIS CODES
D5- DIMENSION [®] PRO 5.0 Urethane, All Colors	Health 2* Flammability 3 Reactivity 0

MSDS CODE

D5-L

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
WESTERN AUTOMOTIVE FINISHES	(216) 566-2917
101 Prospect Avenue N.W.	
Cleveland, OH 44115	

DATE OF PREPARATION	INFORMATION TELEPHONE NO.
09-MAR-07	(216) 566-2902

Section 2 -- Composition/Information on Ingredients

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
1	64742-88-7	Mineral Spirits		
		ACGIH TLV	100 ppm	2 mm
		OSHA PEL	100 ppm	
0-2	108-88-3	Toluene		
		ACGIH TLV	50 ppm (Skin)	22 mm
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
2-3	100-41-4	Ethylbenzene		
		ACGIH TLV	100 ppm	7.1 mm
		ACGIH TLV	125 ppm STEL	
		OSHA PEL	100 ppm	
		OSHA PEL	125 ppm STEL	
12-17	1330-20-7	Xylene		
		ACGIH TLV	100 ppm	5.9 mm
		ACGIH TLV	150 ppm STEL	
		OSHA PEL	100 ppm	
		OSHA PEL	150 ppm STEL	
1-2	94-96-2	2-Ethyl-1,3-hexanediol		
		ACGIH TLV	Not Available	0.001 mm
		OSHA PEL	Not Available	
2-4	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 ppm	70 mm
		ACGIH TLV	300 ppm STEL	
		OSHA PEL	200 ppm	
		OSHA PEL	300 ppm STEL	

2-3	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 ppm	3.855 mm
		OSHA PEL	100 ppm	
0-1	141-78-6	Ethyl Acetate		
		ACGIH TLV	400 ppm	86 mm
		OSHA PEL	400 ppm	
12-20	123-86-4	n-Butyl Acetate		
		ACGIH TLV	150 ppm	10 mm
		ACGIH TLV	200 ppm STEL	
		OSHA PEL	150 ppm	
0-2	112-07-2	2-Butoxyethyl Acetate		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	
0-1	108-65-6	1-Methoxy-2-Propanol Acetate		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
2	97-85-8	Isobutyl Isobutyrate		
		ACGIH TLV	Not Available	3.2 mm
		OSHA PEL	Not Available	
0-3	Proprietary	Coated Mica		
		ACGIH TLV	3 mg/m3 as Dust	
		OSHA PEL	3 mg/m3 as Dust	
0-2	7782-42-5	Graphite		
		ACGIH TLV	2 mg/m3	
		OSHA PEL	2.5 mg/m3	
0-24	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0-1	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 mg/m3	
		OSHA PEL	3.5 mg/m3	
0-7	8007-18-9	Nickel Antimony Titanate		
		ACGIH TLV	0.5 mg/m3	
		OSHA PEL	0.5 mg/m3	
CERTAIN COLORS CONTAIN LEAD AND CHROMIUM (see PRODUCT LABEL)				
<16	1344-37-2	Lead Chromate		
		ACGIH TLV	0.05 mg/m3	
		OSHA PEL	0.05 mg/m3	
<16	12656-85-8	Molybdate Orange		
		ACGIH TLV	0.05 mg/m3	
		OSHA PEL	0.05 mg/m3	

9.1	maximum	Lead (as Pb)		
1.9	maximum	Chromium VI (as Cr)		
0.8	maximum	Antimony (as Sb)		

Continued

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Section 3 -- Hazards Identification

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Certain colors contain Lead (see PRODUCT LABEL). Acute occupational exposure to Lead is uncommon, but results in effects and symptoms similar to chronic lead overexposure described below.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- First Aid Measures

EYES: Flush eyes with large amounts of water for 15 minutes.
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and laundry before re-use.

INHALATION: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.

INGESTION: Do not induce vomiting.
Get medical attention immediately.

Section 5 -- Fire Fighting Measures

FLASH POINT	LEL	UEL
45-60 °F (7-16 °C) TCC	1.0	13.1

FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 °F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- Handling and Storage

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- Exposure Controls/Personal Protection

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Certain colors contain Lead or Chromium (see PRODUCT LABEL). Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

When sanding, wirebrushing, abrading, burning or welding the dried film, wear a particulate respirator approved by NIOSH/MSHA for protection against non-volatile materials in Section 2.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

Certain colors contain Lead and Chromium (see PRODUCT LABEL). Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- Physical and Chemical Properties

PRODUCT WEIGHT	8-10 lb/gal	960-1200 g/l
SPECIFIC GRAVITY	0.96-1.2	
BOILING POINT	163 - 308 °F	72 - 153 °C
MELTING POINT	Not Available	

VOLATILE VOLUME	45-55 %
EVAPORATION RATE	Slower than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)	
3.8-4.2 lb/gal	460-500 g/l Less Water and Federally Exempt Solvents
3.8-4.2 lb/gal	460-500 g/l Emitted VOC

Section 10 -- Stability and Reactivity

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

Metallics contain aluminum. Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- Toxicological Information

CHRONIC HEALTH HAZARDS

Certain colors contain Lead and Chromium (see PRODUCT LABEL). Chronic overexposure to Lead may result in damage to the blood-forming, nervous, urinary, and reproductive systems (including embryotoxic effects). Symptoms include abdominal discomfort or pain, constipation, loss of appetite, metallic taste, nausea, insomnia, nervous irritability, weakness, muscle and joint pains, headache and dizziness.

Chromates are listed by IARC and NTP. Although studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, available evidence indicates that Lead Chromate (Chrome Yellow, Molybdate Orange) DOES NOT present this hazard.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Limited evidence exists linking certain Nickel compounds to cancer in animals and possibly humans, however no direct evidence exists that Nickel Antimony Titanate is carcinogenic.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

2-Ethyl-1,3-hexanediol is considered an animal teratogen. It has been shown to cause birth defects and reproductive disorders in laboratory animals. There is no evidence to indicate it causes birth defects in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name					
64742-88-7	Mineral Spirits	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene	LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene	LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
1330-20-7	Xylene	LC50	RAT	4HR	5000	ppm
		LD50	RAT		4300	mg/kg
94-96-2	2-Ethyl-1,3-hexanediol	LC50	RAT	4HR	Not Available	
		LD50	RAT		1400	mg/kg
78-93-3	Methyl Ethyl Ketone	LC50	RAT	4HR	Not Available	
		LD50	RAT		2740	mg/kg
110-43-0	Methyl n-Amyl Ketone	LC50	RAT	4HR	Not Available	
		LD50	RAT		1670	mg/kg
141-78-6	Ethyl Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		5600	mg/kg

123-86-4	n-Butyl Acetate	LC50	RAT	4HR	2000	ppm
		LD50	RAT		13100	mg/kg
112-07-2	2-Butoxyethyl Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		2400	mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		8500	mg/kg
97-85-8	Isobutyl Isobutyrate	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
Proprietary	Coated Mica	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
13463-67-7	Titanium Dioxide	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
1333-86-4	Carbon Black	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
1344-37-2	Lead Chromate	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
8007-18-9	Nickel Antimony Titanate	LC50	RAT	4HR	Not Available	
		LD50	RAT		499.9	mg/kg
12656-85-8	Molybdate Orange	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
7782-42-5	Graphite	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- Ecological Information

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- Disposal Considerations

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability and extractability to determine the applicable EPA hazardous waste numbers.

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Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- Transport Information

No data available.

Section 15 -- Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	max 2	
100-41-4	Ethylbenzene	max 3	
1330-20-7	Xylene	max 17	
	Chromium Compound	max 16	1.9
	Nickel Compound	max 7	0.2
	Antimony Compound	max 7	0.8
	Lead Compound	max 16	9.1
	Glycol Ethers	max 2	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- Other Information

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

End

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