



Material Safety Data Sheet

Western Automotive Finishes
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DIMENSION™ Single Stage Urethane 5.0 System

DM-5U/W

— Section 2 —		ACGIH	OSHA	Units	Vapor	5U-LF	5U-LL	DH653	P E R C E N T B Y W E I G H T
CAS No.	Hazardous Ingredients (percent by weight)	TLV <STEL>	PEL <STEL>		Pressure (mm Hg)	(Pb) LEAD FREE	(Pb) CONTAINS LEAD	H.S. Hardener	
108-88-3	§ Toluene.	50	100 <150>	PPM (Skin)	22.0	4 - 8	4 - 8		
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	PPM	7.1	1 - 3	1 - 3		
1330-20-7	§ Xylene.	100 <150>	100 <150>	PPM	5.9	8 - 20	8 - 20		
98-56-6	p-Chlorobenzotrifluoride	Not Established			5.3			5	
64742-95-6	Light Aromatic Hydrocarbons	Not Established			3.8	2	2		
108-67-8	1,3,5-Trimethylbenzene	25	25	PPM	10.0	2 - 3	2 - 3		
95-63-6	§ 1,2,4-Trimethylbenzene	25	25	PPM	2.0	3 - 4	3 - 4		
111-76-2	§ 2-Butoxyethanol	25	25	PPM (Skin)	0.6	0 - 2	0 - 2		
78-93-3	§ Methyl Ethyl Ketone	200 <250>	200 <250>	PPM	70.0	2 - 4	2 - 4		
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	PPM	10.0	10 - 30	10 - 30		
112-07-2	§ 2-Butoxyethyl Acetate.	Not Established			1.0	0.9 - 3	0.9 - 3		
28182-81-2	Hexamethylene Diisocyanate Polymer.	0.5 C 1		Mg/M3 Supplier Limit				95	
822-06-0	Hexamethylene Diisocyanate (max.)	0.005		PPM	0.05			0.2	
Unknown	Coated Mica	3	3	Mg/M3	as Dust	0 - 5	0 - 5		
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3		0 - 1	0 - 1		
13463-67-7	Titanium Dioxide	10	10 [5]	Mg/M3	as Dust [Resp. Fraction]	0 - 22	0 - 22		
1344-37-2 12656-85-8	Lead Chromate Molybdate Orange	0.05	0.05	Mg/M3			< 15		
8007-18-9	Nickel Antimony Titanate	0.5	0.5	Mg/M3		0 - 3	0 - 3		
	§ Chromium Compound. [% Chromium]						max 15 [2.5]		
	§ Nickel Compound. [% Nickel]					max 3 [0.4]	max 3 [0.4]		
	§ Antimony Compound. [% Antimony]					max 3 [0.1]	max 3 [0.1]		
	§ Lead Compound. [% Lead]						max 15 [9.5]		
	Weight per Gallon (lbs.)					8 - 11	8 - 11	9.67	
	VOC (Volatile Organic Compounds) Total - lbs./gal. maximum Ready-To-Spray					5.0	5.0	0.0	
	VOC Less Water & Federally Exempt Solvents - lbs./gal. maximum Ready-To-Spray					5.0	5.0	0.0	
	Photochemically Reactive					Yes	Yes	Yes	
	Flash Point (°F)					45 - 60	45 - 60	135	
	DOL Storage Category / Flammability Classification (Flammable - Combustible)					1B / Flam	1B / Flam	2 / Comb	
	HMIS (NFPA) Rating (health - flammability - reactivity) / PAINT-SAFE® Code					2* - 3 - 0 / K	2* - 3 - 0 / K	3* - 2 - 1 / K	

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

Section 3 — Physical Data

PRODUCT WEIGHT	See TABLE	EVAPORATION RATE	Slower than Ether
SPECIFIC GRAVITY	0.96-1.32	VAPOR DENSITY	Heavier than Air
BOILING RANGE	174-384 °F	MELTING POINT	N.A.
VOLATILE VOLUME	4-65 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION FLASH POINT See TABLE LEL 0.5 UEL 12.8

See TABLE

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. 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 5 — Health Hazard Data

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Certain colors contain Lead (See TABLE and PRODUCT LABEL). Acute occupational exposure to Lead is uncommon, but results in symptoms similar to chronic 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

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

EMERGENCY AND FIRST AID PROCEDURES

- If INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.
- If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
- If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- If SWALLOWED: Get medical attention.

CHRONIC Health Hazards

Certain colors contain Lead and Chromate (See TABLE and 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.

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.

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

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

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.

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.

Section 6 — Reactivity Data

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.

Contamination of Hardener with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS

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

HAZARDOUS POLYMERIZATION — Will Not Occur

Section 7 — Spill Or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Waste from products containing Lead, Chromium, or Methyl Ethyl Ketone may also require extractability testing.

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

Section 8 — Protection Information

PRECAUTIONS TO BE TAKEN IN USE

Certain colors contain Lead (See TABLE and PRODUCT LABEL). Before initial use of Lead-containing colors, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).

NO PERSONS SHOULD USE THESE PRODUCTS, OR BE IN THE AREA WHERE THESE PRODUCTS ARE BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

These coatings 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 THESE PRODUCTS ARE BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

If personal exposure cannot be controlled below applicable limits by ventilation wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

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

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 when using hardener.

Section 9 — Precautions

DOL STORAGE CATEGORY — 1B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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.

OTHER PRECAUTIONS

Certain colors contain Lead (See TABLE and PRODUCT LABEL). Do not apply Lead-containing colors on toys or 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.

These products may 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 10 — Other Regulatory Information

CALIFORNIA PROPOSITION 65

WARNING: These products, except for DH653, contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products 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.