



Material Safety Data Sheet

Western Automotive Finishes
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DIMENSION® Acrylic Enamel System

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DM-ACR/W

CAS No.	— Section 2 — Hazardous Ingredients (percent by weight)	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	LD50 (Rat-Oral) mg/kg	LC50 (Rat) ppm/4hr	Vapor Pressure mm	3A-LF Non-Lead Colors	3A-LL Lead Colors	5A-LF Non-Lead Colors	5A-LL Lead Colors	DH654 Standard Hardener
64742-88-7	Mineral Spirits	100	100	ppm	NAv	NAv	2.0	1 - 2	1 - 2	1 - 2	1 - 2	
108-88-3	§ Toluene	50	100 <150>	ppm (skin)	5000	4000	22.0	0.5 - 8	0.5 - 8	0 - 11	0 - 11	
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	ppm	3500	NAv	7.1	1 - 2	1 - 2	4 - 7	4 - 7	
1330-20-7	§ Xylene	100 <150>	100 <150>	ppm	4300	5000	5.9	8 - 15	8 - 15	25 - 41	25 - 41	
111-76-2	§ 2-Butoxyethanol	20	20	ppm (skin)	470	NAv	0.9	1 - 2	1 - 2	1 - 2	1 - 2	
67-64-1	Acetone	500 <750>	1000	ppm	5800	NAv	180.0	5 - 8	5 - 8			
78-93-3	§ Methyl Ethyl Ketone	200 <300>	200 <300>	ppm	2740	NAv	70.0	0.5 - 4	0.5 - 4	0 - 7	0 - 7	
107-87-9	Methyl n-Propyl Ketone	200 <250>	200 <250>	ppm	1600	NAv	27.8	6 - 8	6 - 8			
123-86-4	n-Butyl Acetate	150 <200>	150 <200>	ppm	13100	2000	10.0	3 - 8	3 - 8	4 - 10	4 - 10	24
112-07-2	§ 2-Butoxyethyl Acetate	NAv	NAv		2400	NAv	1.0	0 - 2	0 - 2	0 - 2	0 - 2	
28182-81-2	Hexamethylene Diisocyanate Polymer	0.5 C 1		Mg/M3 Supplier Limit		NAv	NAv					76
822-06-0	HMDI Monomer (max.)	0.005		ppm	738	NAv						0.2
136-52-7	§ Cobalt 2-Ethylhexanoate	NAv	NAv		NAv	NAv		0.1 - 0.2	0.1 - 0.2			
Proprietary	Light Stabilizer	NAv	NAv		3125	NAv		1	1			
Proprietary	Coated Mica	2	2	mg/m3 as Dust	NAv	NAv		0 - 5	0 - 5	0 - 5	0 - 5	
13463-67-7	Titanium Dioxide	10	10[5]	Mg/M3 as Dust [Resp. Fraction]	NAv	NAv		0 - 20	0 - 20	0 - 20	0 - 20	
1333-86-4	Carbon Black	3.5	3.5	mg/m3	NAv	NAv		0 - 1	0 - 1	0 - 1	0 - 1	
1344-37-2	Lead Chromate	0.05	0.05	mg/m3	NAv	NAv			<15		<15	
12656-85-8	Molybdate Orange											
8007-18-9	Nickel Antimony Titanate	0.5	0.5	mg/m3	NAv	NAv		0 - 2	0 - 2	0 - 2	0 - 2	
	§ Antimony Compound [% Antimony] - maximum							2 [0.2]	2 [0.2]	2 [0.2]	2 [0.2]	
	§ Chromium Compound [% Chromium] - maximum								15 [2.2]		15 [2.2]	
	§ Lead Compound [% Lead] - maximum								15 [9.0]		15 [9.0]	
	§ Nickel Compound [% Nickel] - maximum							2 [0.08]	2 [0.08]	2 [0.08]	2 [0.08]	
	Weight per Gallon (lbs.)							8 - 10	8 - 10	8 - 10	8 - 10	8.93
	VOC (Volatile Organic Compounds) Emitted - lbs./gal.							2.8 - 3.0	2.8 - 3.0	4.5 - 4.7	4.5 - 4.7	2.14
	VOC Less Water & Federally Exempt Solvents - lbs./gal.							3.1 - 3.2	2.8 - 3.0	4.5 - 4.7	4.5 - 4.7	2.14
	Photochemically Reactive							Yes	Yes	Yes	Yes	No
	Flash Point (°F)							30 - 50	30 - 50	30 - 50	30 - 50	81
	HMS (NFPA) Rating (health - flammability - reactivity) / DOL Storage Category							2*-3-0 / 1B	2*-3-0 / 1B	2*-3-0 / 1B	2*-3-0 / 1B	3*-3-1 / 1B

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

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 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.

CANCER INFORMATION - For complete discussion of toxicology data refer to Section 11.

Section 4 — First Aid Measures

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 & launder before re-use.

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

If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

Section 5 — Fire Fighting Measures

FLASH POINT	<i>LEL</i>	<i>UEL</i>
See TABLE	0.5	12.8

FLAMMABILITY CLASSIFICATION - RED LABEL -- Flammable, Flash below 100 °F

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 & 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 - See TABLE

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.

Section 8 — Exposure Controls/Personal Protection

PRECAUTIONS TO BE TAKEN IN USE -

NO PERSON 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.

Certain colors contain Lead (see product label). Before initial use of lead-containing colors, 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.

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.

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 recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION - Wear safety spectacles with unperforated sideshields.

OTHER PROTECTION - Wear barrier cream on exposed skin.

OTHER PRECAUTIONS -

Certain colors contain Lead (see product label). Do not apply lead-containing colors 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.

These products 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	See TABLE	EVAPORATION RATE	Slower than ether
SPECIFIC GRAVITY	0.96 - 1.20	VAPOR DENSITY	Heavier than air
BOILING POINT	174 - 395 °F	MELTING POINT	Not Available
VOLATILE VOLUME	30 - 70 %	SOLUBILITY IN WATER	Not Available

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 Monoxide & Dioxide, Oxides of Metals in Section 2

HAZARDOUS POLYMERIZATION - Will not occur

Section 11 — Toxicological Information

CHRONIC HEALTH HAZARDS -

Certain colors contain Lead and Chromates (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.

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.

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

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

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

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 12 — Ecological Information

No data available.

Section 13 — Disposal Considerations

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/Provincial, and Local regulations regarding pollution.

Section 14 — Transport Information

No data available.

Section 15 — Regulatory Information

CALIFORNIA PROPOSITION 65 - WARNING: These products, except DH654 Hardener, contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION - All chemicals are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 — Other Information

These products have been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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.