

— Section 1 —
Product Identification



Material Safety Data Sheet

Sherwin-Williams Automotive Finishes Corp.
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Cleveland, OH 44115

Emergency telephone number
Information telephone number
Date of preparation

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SUNFIRE® Basecoat/Clearcoat

URE-B/1

— Section 2 — CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	Non-Lead Colors URE-BF	Lead-Containing URE-BL	V6V769 Hardener	T1C1000 Clearcoat	T1C1020 Hi-Gloss Clearcoat	V6V1028 Clearcoat Hardener
108-88-3	§ Toluene.	50	100 <150>	PPM (Skin)	22.0					26	
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	PPM	7.1	2 - 4	2 - 4			2	4
1330-20-7	§ Xylene.	100 <150>	100 <150>	PPM	5.9	12 - 22	12 - 22			8	22
64742-95-6	Light Aromatic Hydrocarbons.	Not Established			3.8					2	
108-67-8	1,3,5-Trimethylbenzene	25	25	PPM	10.0					3	
95-63-6	§ 1,2,4-Trimethylbenzene	25	25	PPM	2.0					4	1
78-93-3	§ Methyl Ethyl Ketone.	200 <300>	200 <300>	PPM	70.0	0-1	0-2				
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	PPM	10.0	32 - 50	32 - 50	25	70	12	4
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8	0 - 4	0 - 4		1		
28182-81-2	Hexamethylene Diisocyanate Polymer.	0.5 C 1		Mg/M3 Supplier Limit				75			67
822-06-0	§ Hexamethylene Diisocyanate (Max.)	0.005		PPM	0.05			1.4			0.15
1333-86-4	Carbon Black	3.5	3.5	Mg/M3		0 - 1	0 - 1				
Unknown	Coated Mica	3	3	Mg/M3 as Dust		0 - 5	0 - 5				
8007-18-9	Nickel Antimony Titanate	0.5	0.5	Mg/M3		0 - 30	0 - 30				
13463-67-7	Titanium Dioxide	10	10[5]	Mg/M3 as Dust [Resp. Fraction]		0 - 30	0 - 30				
1344-37-2 12656-85-8	Lead Chromate. Molybdate Orange.	0.05	0.05	Mg/M3			<30				
§	Lead Compound [% Lead] - maximum						30 [18]				
§	Chromium Compound [% Chromium] - maximum						30 [5]				
§	Antimony Compound [% Antimony] - maximum					30 [3]	30 [3]				
§	Nickel Compound [% Nickel] - maximum					30 [0.9]	30 [0.9]				
	Weight per Gallon (lbs.)					7.9 - 10	7.9 - 10	8.85	7.80	8.02	8.71
	VOC (Volatile Organic Compounds) Total - lbs./gal.					4.9 - 6.1	4.9 - 6.1	2.21	5.75	4.64	2.87
	VOC Less Water and exempt Solvents - lbs./gal.					4.9 - 6.1	4.9 - 6.1	2.21	5.75	4.64	2.87
	Photochemically Reactive					Yes	Yes	No	No	Yes	Yes
	Flash Point (°F) / DOL Storage Category					72 / 1B	72 / 1B	81 / 1C	72 / 1B	47 / 1C	80 / 1C
	HMIS (NFPA) Rating (health - flammability - reactivity) PAINT SAFE® Code					2 - 3 - 0 K	2* - 3 - 0 K	2* - 3 - 1 K	2 - 3 - 0 K	3 - 3 - 0 K	3* - 3 - 0 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	0.94-1.20	VAPOR DENSITY	Heavier than Air
BOILING RANGE	255-360 °F	MELTING POINT	N.A.
VOLATILE VOLUME	30-78 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION	FLASH POINT	See TABLE	LEL	0.7	UEL	13.1
RED LABEL — Flammable, Flash below 100 °F						
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

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/or 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. 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.

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.

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 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.
If hardener is spilled, all personnel in the area should be protected as in Section 8. Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

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 must also be tested for extractability.

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

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

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).

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.

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.

Section 9 — Precautions

DOL 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.

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 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 10 — Other Regulatory Information

CALIFORNIA PROPOSITION 65

These products, except V6V769, 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 products. 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.