



Material Safety Data Sheet

The Sherwin-Williams Company
Krylon Products Group
101 Prospect Avenue N.W.
Cleveland, OH 44115

Emergency telephone numbers (216) 566-2917 United States

Information telephone number (800) 251-2486
July 10, 2000

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Specialty Clear Coatings -1

CLEARCOAT1/KRI

— Section 2 — CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	1301 Crystal Clear	1302 Clear (Radio/TV)	1303 Clear (Graphics Arts)	1305 UV Resistant Clear	1310 Dulling Spray	1311 Matte Finish Spray	1312 KAMAR™ Varnish	P E R C E N T B Y W E I G H T	
74-98-6	Propane	2500	1000	P P M	760.0	15	15	15	15	14	15	14		
106-97-8	Butane	800	800	P P M	760.0	15	15	15	15	14	15	14		
64742-89-8	Lt. Aliphatic HC Solvent.	100	100	P P M	53.0	6	6	6	19	20		20		
64742-89-8	V. M. & P. Naphtha.	300	300 <400>	P P M	12.0							20		
64742-88-7	Mineral Spirits.	100	100	P P M	2.0							9		
108-88-3	§ Toluene.	50	100 <150>	PPM (Skin)	22.0				13	5	50	2		
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	P P M	7.1	4	4	4	2					
1330-20-7	§ Xylene.	100 <150>	100 <150>	P P M	5.9	23	23	23	14					
64742-94-5	Med. Aromatic Hydrocarbons.	Not Established			0.1	2	2	2						
67-63-0	2-Propanol	400 <500>	400 <500>	P P M	33.0					27				
107-21-1	§ Ethylene Glycol.	C 50	C 50	P P M	0.1					2				
67-64-1	Acetone.	500 <750>	1000	P P M	180.0	26	26	26	11	15	13	9		
Weight per Gallon (lbs.)						5.99	5.99	5.99	5.93	5.76	6.10	5.77		
VOC Less Water & Federally Exempt Solvents (percent by weight)						66.2	66.2	66.2	81.4	83.4	80.3	82.0		
Flash Point (°F)						<0	<0	<0	<0	<0	<0	<0		
HMIS (NFPA) Rating (health - flammability - reactivity)						2 - 4 - 0	2 - 4 - 0	2 - 4 - 0	2 - 4 - 0	2 - 4 - 0	2 - 4 - 0	2 - 4 - 0		

§ 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	Faster than Ether
SPECIFIC GRAVITY	0.70-0.85	VAPOR DENSITY	Heavier than Air
BOILING RANGE	<0 - 698 °F	MELTING POINT	N.A.
VOLATILE VOLUME	>85 %	SOLUBILITY IN WATER	N.A.

Section 4 — Fire And Explosion Hazard Data

FLASH POINT	See TABLE	LEL	0.3	UEL	27.0
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EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

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

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

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: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give conscious patient several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in these products is an IARC, NTP, or OSHA listed carcinogen.

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

Prolonged and repeated exposure to Hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of Methyl Ethyl Ketone.

Prolonged overexposure to solvent ingredients in the following products may cause adverse effects to organ systems:

- 1306, 7120 liver, urinary, blood forming
- 1301, 1302, 1303, 7002 liver, urinary, reproductive
- 1305, 1311, 1312, 7005, 7006 liver, urinary, reproductive, cardiovascular
- 7001 liver, urinary, blood forming, cardiovascular, reproductive

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 -- None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

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.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 8 — Protection Information

PRECAUTIONS TO BE TAKEN IN USE

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

These products 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

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 or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 — Precautions

DOL STORAGE CATEGORY — 1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

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.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F.

Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

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 7110 and 7120, contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. 7120 contains a chemical known to the State of California to cause cancer.

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.



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Specialty Clear Coatings - 2

CLEARCOAT2/KRI

— Section 2 — CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	1306 Workable Exempt	7001 Gloss Varnish	7002 Satin Varnish	7005 Polyurethane Gloss	7006 Polyurethane Satin	7110 Low Odor Clear Gloss	7120 Low Odor Clear Matte	P E R C E N T B Y W E I G H T	
74-98-6	Propane	2500	1000	P P M	760.0	13	20	20	15	15				
106-97-8	Butane	800	800	P P M	760.0	12			15	15				
110-54-3	§ Hexane	50	50	P P M	127.0				2					
64742-89-8	Lt. Aliphatic HC Solvent.	100	100	P P M	53.0		23							
64742-89-8	V. M. & P. Naphtha.	300	300 <400>	P P M	12.0		6	7						
64742-88-7	Mineral Spirits.	100	100	P P M	2.0				8	7				
108-88-3	§ Toluene.	50	100 <150>	PPM (Skin)	22.0		6		17	17				
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	P P M	7.1			3		2				
1330-20-7	§ Xylene.	100 <150>	100 <150>	P P M	5.9			15	8	9				
64742-94-5	Med. Aromatic Hydrocarbons.	Not Established			0.1		2							
67-63-0	2-Propanol	400 <500>	400 <500>	P P M	33.0	2					5	5		
111-76-2	§ 2-Butoxyethanol	20	20	PPM (Skin)	0.9	2					6	6		
67-64-1	Acetone.	500 <750>	1000	P P M	180.0	57	34	45	20	20				
115-10-6	Dimethyl Ether.	Not Established			760.0						35	35		
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8	10	2							
112926-00-8	Amorphous Precipitated Silica	10	6	Mg/M3 as Dust								2		
Weight per Gallon (lbs.)						6.08	5.96	6.16	6.12	6.07	7.01	7.06		
VOC Less Water & Federally Exempt Solvents (percent by weight)						38.3	60.4	44.0	64.9	64.9	47.9	47.8		
Flash Point (°F)						<0	<0	<0	<0	<0	<0	<0		
HMIS (NFPA) Rating (health - flammability - reactivity)						2 - 4 - 0	2 - 4 - 0	2 - 4 - 0	2* - 4 - 0	2 - 4 - 0	2 - 4 - 0	2 - 4 - 0		

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