



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 5, 2000

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RUST TOUGH® Rust Preventive Enamel Bulks - 1

RTB1/KRI

		Aluminum	Light Blue (OSHA Blue)	Safety Blue	Deep Blue	Safety Green	Bright Green	Dark Green	SafetyYellow (OSHA Yellow)	Federal Yellow	School Bus Yellow	Industrial Yellow						
— Section 2 — CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	R00151 R00155	R00231 R00235	R00241 R00245	R00251 R00255	R00331 R00335	R00341 R00345	R00371 R00375	R00431 R00435	R00441 R00445	R00451 R00455	R00471 R00475		
64742-88-7	Mineral Spirits.	100	100	PPM	2.0	39	35	39	40	38	41	40	35	38	37	39	%	
136-52-7	Cobalt 2-Ethylhexanoate.	Not Established				0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	BY
14808-60-7	Quartz	0.1	0.1	Mg/M3	as Resp. Dust		0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	WEIGHT	
13463-67-7	Titanium Dioxide.	10	10[5]	Mg/M3 [Resp. Fraction]	as Dust		21	5	3	7	3		14	10	5	3		
§ Cobalt Compound [% Cobalt]						0.3 [0.06]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]		
Weight per Gallon (lbs.)						8.61	9.32	8.19	8.07	8.46	8.04	8.08	8.95	8.68	8.35	8.37		
VOC (Volatile Organic Compounds) - lbs./gal.						3.45	3.49	3.49	3.49	3.47	3.51	3.49	3.34	3.50	3.36	3.49		
Flash Point (°F)						100	100	100	100	100	100	100	100	100	100	100		
Flammability Classification (Flammable - Combustible)						Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.		
HMIS (NFPA) Rating (health - flammability - reactivity)						2* - 2 - 1	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 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	Slower than Ether
SPECIFIC GRAVITY	0.96-1.39	VAPOR DENSITY	Heavier than Air
BOILING RANGE	277 - 416 °F	MELTING POINT	N.A.
VOLATILE VOLUME	50-61 %	SOLUBILITY IN WATER	N.A.
PHOTOCHEMICAL	No (except Quick Dry Primers)		

Section 4 — Fire And Explosion Hazard Data

FLASH POINT
See TABLE

LEL 0.8 UEL 6.0

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: Get medical attention.

CHRONIC Health Hazards

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. Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP.

Cobalt and cobalt compounds are classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is inadequate evidence in humans for its carcinogenicity.

Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems. Prolonged overexposure to solvents in Rust Preventive Primers may also cause adverse effects to the reproductive system.

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 -- 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.

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

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

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 — Precautions

DOL STORAGE CATEGORY — 2 All (except Quick Dry Primers)
1C Quick Dry Primers

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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

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 Safety Orange, Quick Dry Gray Primer, and Quick Dry Red Oxide Primer, contain a chemical known to the State of California to cause cancer. Safety Orange contains chemicals known to the State of California to cause cancer. The two Quick Dry Primers 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.



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RUST TOUGH® Rust Preventive Enamel Bulks - 2

RTB2/KRI

— Section 2 — CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	Equipment Yellow	SafetyOrange (OSHAOrange)	Equipment Orange	Safety Red (OSHA Red)	Bright Red	Red Primer	Tan	Chestnut Brown	Semi-Gloss Black	Flat Black	Gloss Black	% B Y W E I G H T	
						R00481 R00485 R00487	R00551 R00555	R00561 R00565	R00631 R00635	R00641 R00645 R00647	R00691 R00695 R00697	R00711 R00715	R00751 R00755	R00771 R00775 R00777	R00781 R00785 R00787	R00791 R00795 R00797		
64742-88-7	Mineral Spirits.	100	100	PPM	2.0	38	40	40	41	40	31	39	39	37	31	41		
136-52-7	Cobalt 2-Ethylhexanoate.	Not Established				0.1	0.1	0.1	0.1	0.1		0.1	0.1			0.2		
14808-60-7	Quartz	0.1	0.1	Mg/M3	as Resp. Dust	0.6	0.6	0.6	0.6	0.6	17	0.6		3	5	0.6		
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust						9			20	34			
12001-26-2	Mica	3	3	Mg/M3	as Resp. Dust						5							
13463-67-7	Titanium Dioxide.	10	10[5]	Mg/M3 [Resp. Fraction]	as Dust	5	1	1				8						
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3									0.9	2	2	1		
§	Cobalt Compound [% Cobalt]					0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]	0.1[0.02]		0.1[0.02]	0.1[0.02]			0.2[0.03]		
	Weight per Gallon (lbs.)					8.39	8.12	8.06	7.96	8.02	10.72	8.42	8.46	9.09	10.33	7.89		
	VOC (Volatile Organic Compounds) - lbs./gal.					3.46	3.49	3.50	3.47	3.48	3.44	3.48	3.50	3.49	3.34	3.49		
	Flash Point (°F)					100	100	100	100	100	100	100	100	100	100	100		
	Flammability Classification (Flammable - Combustible)					Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.		
	HMIS (NFPA) Rating (health - flammability - reactivity)					2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0		

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RUST TOUGH® Rust Preventive Enamel Bulks - 3

RTB3/KRI

— Section 2 —		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	Gray Primer R00821 R00825 R00827	Lt. Machine Gray ASA-61 R00831 R00835 R00837	Galvanized Metal Primer R00841 R00845	Red Oxide QD Primer R00851 R00855	Gray QD Primer R00861 R00865	Dk Machinery Gray ASA-49 R00871 R00875 R00877	Flat White R00901 R00905 R00907	Semi-Gloss White R00911 R00915	Gloss White R00921 R00925 R00927	White Tint Base R01011 R01015	Deep Tint Base R01031 R01035	Clear Tint Base R01041 R01045
CAS No.	Hazardous Ingredients (percent by weight)																
64742-88-7	Mineral Spirits.	100	100	PPM	2.0	31	40	24			40	27	30	35	36	39	42
64742-88-7	Mineral Spirits 140-Flash.	100	100	PPM	0.5			9									
100-41-4	§ Ethylbenzene	100 <125>	100 <125>	PPM	7.1				4	3							
1330-20-7	§ Xylene.	100 <150>	100 <150>	PPM	5.9				20	19							
64742-95-6	Light Aromatic Hydrocarbons.	Not Established			3.8				3	3							
108-67-8	1,3,5-Trimethylbenzene	25	25	PPM	10.0				4	3							
95-63-6	§ 1,2,4-Trimethylbenzene	25	25	PPM	2.0				6	5							
64742-94-5	Medium Aromatic Hydrocarbons	Not Established			0.1			1									
34590-94-8	2-Methoxymethylethoxypropanol	100 <150>	100 <150>	PPM (Skin)	0.4			2									
136-52-7	Cobalt 2-Ethylhexanoate.	Not Established					0.1				0.1			0.1	0.1	0.1	0.2
14808-60-7	Quartz	0.1	0.1	Mg/M3	as Resp. Dust	17	0.6				0.6	4	5		0.5	0.6	0.6
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust	9		7	4	10		27	18				
12001-26-2	Mica	3	3	Mg/M3	as Resp. Dust	5											
471-34-1	Calcium Carbonate.	10	15[5]	Mg/M3	as Dust [Resp. Fraction]			37	14	10							
7727-43-7	Barium Sulfate. [% Ba]	10	10[5]	Mg/M3	as Dust [Resp. Fraction]					8 [3.1]							
13463-67-7	Titanium Dioxide.	10	10[5]			10	4	8		9	4	18	19	22	19	10	
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3		0.6				0.6	0.2						
	§ Cobalt Compound [% Cobalt]						0.1 [0.02]				0.1 [0.02]			0.1[0.02]	0.1 [0.02]	0.1 [0.02]	0.1 [0.02]
	Weight per Gallon (lbs.)					10.56	8.12	11.11	11.10	11.44	8.12	11.52	10.75	9.30	9.13	8.48	7.85
	VOC (Volatile Organic Compounds) - lbs./gal.					3.42	3.49	4.02	4.16	4.12	3.48	3.22	3.35	3.50	3.50	3.51	3.50
	Flash Point (°F)					100	100	105	80	87	100	100	100	100	100	100	100
	Flammability Classification (Flammable - Combustible)					Comb.	Comb.	Comb.	Flam.	Flam.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.	Comb.
	HMIS (NFPA) Rating (health - flammability - reactivity)					2* - 2 - 0	2* - 2 - 0	2 - 2 - 0	3 - 3 - 0	3* - 3 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0	2* - 2 - 0

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PHOTOCHEMICAL	No (except Quick Dry Primers)		

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See TABLE		LEL 0.8	UEL 6.0

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SPECIAL FIRE FIGHTING PROCEDURES

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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: Get medical attention.

CHRONIC Health Hazards

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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.

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

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

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 — Precautions

DOL STORAGE CATEGORY — 2 All (except Quick Dry Primers)

1C Quick Dry Primers

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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

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 Safety Orange, Quick Dry Gray Primer, and Quick Dry Red Oxide Primer, contain a chemical known to the State of California to cause cancer. Safety Orange contains chemicals known to the State of California to cause cancer. The two Quick Dry Primers 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.