



SECTION I
PRODUCT IDENTIFICATION

KRYLON

COLORWORKS® From Krylon® Mark-It™

MATERIAL SAFETY DATA SHEET

SHERWIN-WILLIAMS
DIVERSIFIED BRANDS, INC.
31500 SOLON ROAD
SOLON, OH 44139

EMERGENCY TELEPHONE NO.
(216) 566-2917
INFORMATION TELEPHONE NO.
(800) 532-2541 HARDWARE

DATE OF PREPARATION
01 - SEPT - 96

©1996, The Sherwin-Williams Co.

MARKIT/KR

SECTION II CAS No. HAZARDOUS INGREDIENT (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Vapor Units Pressure (mm Hg)	Mark-It Inverted Spray						
					4202 Pink Fluorescent	4203 Red Fluorescent	4204 Orange Fluorescent	4205 Green Fluorescent	4206 Bright Yellow	4207 Blue	4208 White
74-98-6	Propane		1000	PPM 760.0	8	8	14	8	14	8	14
106-97-8	Butane	800	800	PPM 760.0	8	8	6	8		8	
110-54-3	Hexane	50	50	PPM 127.0					8		8
107-83-5	Isohexane Isomers	500 <1000>	500 <1000>	PPM 250.0					8		6
64742-89-8	LT. Aliphatic Hydrocarbon Solvent	100	100	PPM 53.0	15	15	14	15		15	
64742-89-8	V. M. & P. Naphtha	300 <400>	300 <400>	PPM 12.0					3		4
64742-88-7	Mineral Spirits	100	100	PPM 2.0	6	6		5		6	
64741-85-7	Mineral Spirits (Odorless)	100	100	PPM 1.0			6				
108-88-3	Toluene	50 <150>	100 <150>	PPM (Skin) 22.0	11	12	12	12	14	12	13
1330-20-7	Xylene	100 <150>	100 <150>	PPM 5.9					2		
110-82-7	Cyclohexane	300	300	PPM 100.0	1	1	1				
106-87-2	Methyl Cyclohexane	400	400	PPM 40.0				1		1	
106-21-4	Isopropyl Acetate	250 <310>	250 <310>	PPM 47.5					1		
14807-96-6	Talc	2	2	Mg/M3 as Resp. Dust					6		5
471-34-1	Calcium Carbonate	10	15[5]	Mg/M3 as Dual (Resp. Fraction)					6		8
13463-67-7	Titanium Dioxide	10	10[5]	Mg/M3 as Dual (Resp. Fraction)							4
Weight per Gallon (lbs.)					6.82	6.83	6.65	6.83	7.20	6.83	7.27
VOC as a percent by weight per BAAQMD Rule 49					85.3	86.6	85.7	86.4	82.6	85.9	79.3
VOC (Volatile Organic Compounds) Total - lbs./gal.					3.48	3.58	3.66	3.56	3.50	3.53	3.35
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

⁹ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.85 C

→→→ MSDS Text Page Follows →→→

COLORWORKS® From Krylon® Mar

Section III — PHYSICAL DATA

PRODUCT WEIGHT	- N.A.	EVAPORATION RATE	- Faster than Ether
SPECIFIC GRAVITY	- N.A.	VAPOR DENSITY	- Heavier than Air
BOILING RANGE	- <0-325 °F	MELTING POINT	- N.A.
SOLUBILITY IN WATER	- N.A.		

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION	FLASH POINT	<0 °F PMCC	LEL	0.9	UEL	13.1
Extremely Flammable, Flash below 21 °F						
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 V — 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 several glasses of water. Seek medical attention.

CHRONIC Health Hazards

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

Prolonged and repeated overexposure 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 Section II may cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.

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 VI — REACTIVITY DATA

STABILITY - Stable

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION - Will Not Occur



SECTION I
PRODUCT IDENTIFICATION

KRYLON

COLORWORKS® From Krylon® Mark-It™

MATERIAL SAFETY DATA SHEET

SHERWIN-WILLIAMS
DIVERSIFIED BRANDS, INC.
31500 SOLON ROAD
SOLON, OH 44139

EMERGENCY TELEPHONE NO.
(216) 566-2917
INFORMATION TELEPHONE NO.
(800) 832-2541 HARDWARE

DATE OF PREPARATION
01 - SEPT - 96

©1996, The Sherwin-Williams Co.

MARKIT/KR

SECTION II		ACGIH TLV		OSHA PEL	Vapor Units	Pressure	Mark-It Inverted Spray						
CAS No.	HAZARDOUS INGREDIENT (percent by weight)	<STEL>	<STEL>		(mm Hg)		4202 Pink Fluorescent	4203 Red Fluorescent	4204 Orange Fluorescent	4205 Green Fluorescent	4206 Bright Yellow	4207 Blue	4208 White
74-98-6	Propane		1000	PPM	750.0		8	8	14	8	14	8	14
106-97-8	Butane	800	800	PPM	750.0		8	8	6	8		8	
110-54-3	Hexane	50	50	PPM	127.0						8		8
107-83-5	Isohexane Isomers	500 <1000>	500 <1000>	PPM	250.0						8		6
64742-89-8	LT. Aliphatic Hydrocarbon Solvent	100	100	PPM	53.0	15	15	14	15			15	
64742-89-8	V. M. & P. Naphtha	300	300 <400>	PPM	12.0						3		4
64742-88-7	Mineral Spirits	100	100	PPM	2.0	6	6		5			6	
54741-85-7	Mineral Spirits (Odorless)	100	100	PPM	1.0			6					
108-88-3	Toluene	50 <150>	100 <150>	PPM (Skin)	22.0	11	12	12	12	14	12	13	
1330-20-7	Xylene	100 <150>	100 <150>	PPM	5.9						2		
110-82-7	Cyclohexane	300	300	PPM	100.0	1	1	1					
106-87-2	Methyl Cyclohexane	400	400	PPM	40.0				1			1	
106-21-4	Isopropyl Acetate	250 <310>	250 <310>	PPM	47.5					1			
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust						6		5
471-34-1	Calcium Carbonate	10	15[5]	Mg/M3	as Dust [Resp. Fraction]						6		6
13463-67-7	Titanium Dioxide	10	10[5]	Mg/M3	as Dust [Resp. Fraction]								4
Weight per Gallon (lbs.)							8.82	8.83	8.65	8.83	7.20	8.83	7.27
VOC as a percent by weight per BAAQMD Rule 49							85.3	86.6	85.7	86.4	82.6	85.9	79.3
VOC (Volatile Organic Compounds) Total - lbs./gal.							3.48	3.58	3.66	3.56	3.50	3.53	3.35
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

⁵ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.85 C

→→→ MSDS Text Page Follows →→→

COLORWORKS® From Krylon® Mar

Section III — PHYSICAL DATA

PRODUCT WEIGHT	- N.A.	EVAPORATION RATE	- Faster than Ether
SPECIFIC GRAVITY	- N.A.	VAPOR DENSITY	- Heavier than Air
BOILING RANGE	- <0-325 °F	MELTING POINT	- N.A.
SOLUBILITY IN WATER	- N.A.		

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT <0 °F PMCC LEL 0.9 UEL 13.1

Extremely Flammable, Flash below 21 °F

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 V — 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 several glasses of water. Seek medical attention.

CHRONIC Health Hazards

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

Prolonged and repeated overexposure 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 Section II may cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.

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 VI — REACTIVITY DATA

STABILITY - Stable

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION - Will Not Occur

Section VII — 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 this product 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 Methyl Ethyl Ketone may also require testing for extractability.

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

Section VIII — 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 coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m³ (total dust), 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 II 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 II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for protection against non-volatile materials in Section II.

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 IX — PRECAUTIONS

DOL STORAGE CATEGORY — 1A**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Contents are **EXTREMELY FLAMMABLE**. Keep away from heat, sparks, and open flame. Vapor 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 120 °F. 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 X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: These products contain a chemical/s known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

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

