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SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

2410

Product Name: **Krylon OSHA Colors, Safety Orange**
Manufacturer MSDS.: 2410
Manufacturer Name: Sherwin-Williams Company, Krylon Products Group
Address: Cleveland, OH 44115

Telephone Numbers and Websites:
 Product Information: (800) 832-2541

Regulatory Information: (216) 566-2902
 www.paintdocs.com

Medical Emergency: (216) 566-2917

Transportation Emergency*: (800) 424-9300
 *For Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

HMIS

HEALTH	2
FIRE	3
REACTIVITY	0
PPE	

Revision Date: Nov 28, 2010
 08 00

Product Codes: 2410

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

2410

Ingredient Name	CAS#	Ingredient Percent
Propane OSHA PEL TWA: 1000 PPM ACGIH TLV TWA: 2500 PPM EC Index Number: 1 Vapor Pressure: 760 mm	74-98-6	15% by Weight
Butane OSHA PEL TWA: 800 PPM ACGIH TLV TWA: 800 PPM EC Index Number: 1 Vapor Pressure: 760 mm	106-97-8	7% by Weight
Ethylbenzene OSHA PEL TWA: 100 PPM OSHA STEL/Ceiling: 125 PPM ACGIH TLV TWA: 100 PPM ACGIH STEL/Ceiling: 125 PPM EC Index Number: 1 Vapor Pressure: 7.1 mm	100-41-4	1% by Weight
Xylene OSHA PEL TWA: 100 PPM OSHA STEL/Ceiling: 150 PPM ACGIH TLV TWA: 100 PPM ACGIH STEL/Ceiling: 150 PPM EC Index Number: 1 Vapor Pressure: 5.9 mm	1330-20-7	8% by Weight
Acetone OSHA PEL TWA: 1000 PPM ACGIH TLV TWA: 500 PPM ACGIH STEL/Ceiling: 750 PPM EC Index Number: 1 Vapor Pressure: 180 mm	67-64-1	38% by Weight
Methyl Ethyl Ketone OSHA PEL TWA: 200 PPM OSHA STEL/Ceiling: 300 PPM ACGIH TLV TWA: 200 PPM ACGIH STEL/Ceiling: 300 PPM EC Index Number: 1 Vapor Pressure: 70 mm	78-93-3	11% by Weight

1-Methoxy-2-Propanol Acetate	108-65-6	6% by Weight
OSHA PEL TWA:	Not Available	
ACGIH TLV TWA:	Not Available	
EC Index Number:	1	
	Vapor Pressure: 1.8 mm	
Titanium Dioxide	13463-67-7	0.3% by Weight
OSHA PEL TWA:	10 mg/m3 Total Dust; 5 mg/m3 Respirable Fraction	
ACGIH TLV TWA:	10 mg/m3 as Dust	
EC Index Number:	1	

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SECTION 3 : HAZARDS IDENTIFICATION 2410

Applies to All Ingredients :

Route of Exposure:	INHALATION of vapor or spray mist. EYE or SKIN contact with the product, vapor or spray mist.
Potential Health Effects:	
Eye Contact:	Irritation.
Skin Contact:	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. Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems: The liver The urinary system The hematopoietic (blood-forming) system The reproductive system
Carcinogenicity:	CANCER INFORMATION: For complete discussion of toxicology data refer to Section 11.
Signs/Symptoms:	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.
Aggravation of Pre-Existing Conditions:	None generally recognized. HMIS Codes: Health: 2* Flammability: 3 Reactivity: 0

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SECTION 4 : FIRST AID MEASURES 2410

Eye Contact:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
Skin Contact:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Inhalation:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
Ingestion:	Do not induce vomiting. Get medical attention immediately.

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SECTION 5 : FIRE FIGHTING MEASURES 2410

Flash Point:	Propellant < 0 deg F
Upper Flammable or Explosive Limit:	13.1
Lower Flammable or Explosive Limit:	1.0
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam
Fire Fighting Instructions:	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.
Unusual Fire Hazards:	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.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES 2410

Spill Cleanup Measures:	STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.
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**SECTION 7 : HANDLING and STORAGE**

2410

Handling:	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 120 deg 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.
Storage:	STORAGE CATEGORY: Not Available

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2410

Ventilation System:	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.
Personal Protective Equipment Routine Handling:	PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using. This coating 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).
Hand Protection Description:	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/Face Protection:	Wear safety spectacles with unperforated sideshields.
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. OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

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2410

pH:	7.0
Vapor Density:	Heavier than air
Boiling Point:	< 0 - 302 deg F, < -18 - 150 deg C
Melting Point:	Not Available
Solubility:	IN WATER: Not Applicable
Specific Gravity:	0.76
Evaporation Point:	Faster than ether
Percent Volatile:	VOLUME: 93%
VOC Less H2O & Exempt Solvents:	VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged): Volatile Weight 50.38% Less Water and Federally Exempt Solvents PRODUCT WEIGHT: 6.29 lb/gal, 753 g/l

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2410

Chemical Stability:	Stable
Conditions to Avoid:	None known.
Incompatibilities with Other Materials:	None known.
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	By fire: Carbon Dioxide, Carbon Monoxide

[To Top of page](#)**SECTION 11 : TOXICOLOGICAL INFORMATION**

2410

Applies to all ingredients:	
Chronic Effects:	Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Propane :	
Acute Health Effects:	LD50 RAT: Not Available
Inhalation Effects:	LC50 RAT 4HR: Not Available
Butane :	
Acute Health Effects:	LD50 RAT: Not Available
Inhalation Effects:	LC50 RAT 4HR: Not Available
Ethylbenzene :	
Acute Health Effects:	LD50 RAT: 3500 mg/kg
Inhalation Effects:	LC50 RAT 4HR: Not Available
Carcinogenicity:	Ethylbenzene is classified by IARC as possibly carcinogenic to humans

(2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Xylene :

Acute Health Effects: LD50 RAT: 4300 mg/kg
Inhalation Effects: LC50 RAT 4HR: 5000 ppm

Acetone :

Acute Health Effects: LD50 RAT: 5800 mg/kg
Inhalation Effects: LC50 RAT 4HR: Not Available

Methyl Ethyl Ketone :

Acute Health Effects: LD50 RAT: 2740 mg/kg
Inhalation Effects: LC50 RAT 4HR: Not Available
Chronic Effects: Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

1-Methoxy-2-Propanol Acetate :

Acute Health Effects: LD50 RAT: 8500 mg/kg
Inhalation Effects: LC50 RAT 4HR: Not Available

Titanium Dioxide :

Acute Health Effects: LD50 RAT: Not Available
Inhalation Effects: LC50 RAT 4HR: Not Available
Carcinogenicity: IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

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SECTION 12 : ECOLOGICAL INFORMATION

2410

Ecotoxicity: ECOTOXICOLOGICAL INFORMATION: No data available.

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SECTION 13 : DISPOSAL CONSIDERATIONS

2410

Waste Disposal: 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.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

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SECTION 14 : TRANSPORT INFORMATION

2410

DOT Shipping Information: US Ground (DOT):
May be classed as Consumer Commodity, ORM-D
LIMITED QUANTITY, (ERG##126)
DOT Shipping Name: AEROSOLS
DOT UN Number: UN1950
DOT Hazard Class: 2.1
IMO: May be shipped as Limited Quantity
LIMITED QUANTITY, ADR (D)
IMO Shipping Name: AEROSOLS
IMO Hazard Class: 2.1
IMO UN Number: UN1950
Canadian Shipping Name: AEROSOLS
Canadian Hazard Class: 2.1
Canadian UN Number: UN1950
EMS Number: IMO: F-D, S-U
Canada (TDG):
May be classed as Consumer Commodity, ORM-D
LIMITED QUANTITY, (ERG##126)

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SECTION 15 : REGULATORY INFORMATION

2410

Applies to All Ingredients :

TSCA 8(b): Inventory Status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

State: CALIFORNIA PROPOSITION 65:
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada WHMIS: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Ethylbenzene :

Section 313 Toxic Release Form: SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:
CAS No.: 100-41-4

CHEMICAL/COMPOUND: Ethylbenzene
% By WT: 1%

Xylene :

Section 313 Toxic Release
Form:

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:
CAS No.: 1330-20-7
CHEMICAL/COMPOUND: Xylene
% By WT: 8%

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SECTION 16 : ADDITIONAL INFORMATION

2410

HMIS:

Health Hazard: 2*

Fire Hazard: 3

Reactivity: 0

MSDS Revision Date: Nov 28, 2010

Disclaimer:

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.

OTHER INFORMATION:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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