




SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product:	KNIGHTSHIELD KS-5100	Part Number: 9051100
Manufacturer:	W. R. MEADOWS, INC.	Address: 300 Industrial Drive Hampshire, Illinois 60140
Telephone:	(847) 214-2100	In case of emergency, dial (800) 424-9300 (CHEMTREC)
Revision Date:	3/1/2023	
Product Use:	Polysiloxane Coating	

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS	HAZARD STATEMENTS	
Health	2	
Flammability	1	
Reactivity	0	
WARNING!		
Causes skin irritation. (Category 2)		
May cause an allergic skin reaction. (Category 1B)		
Harmful if swallowed. (Category 4)		
May cause organ damage through prolonged/repeated exposure. (Category 2)		
PRECAUTIONARY STATEMENTS		
Avoid direct contact.		
Avoid breathing mists/sprays.		

SECTION 3: HAZARDS COMPONENTS

<u>Chemical Name:</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>SARA 313</u>	<u>Vapor Pressure (mm Hg@20°C)</u>	<u>LEL (@25°C)</u>
1. Silica, crystalline	14808-60-7	5-25	No	N/A	N/A
2. Butan-2-one-O,O'(methylsilyldiyl)trioxome	22984-54-9	1-5	No	N/A	N/A
3. Titanium Dioxide	13463-67-7	2-9	No	N/A	N/A
4. 3-Triethoxysilylpropan-1-amine	919-30-2	1-5	No	N/A	N/A

N/A: Not Applicable

This product contains silica. Exposure to silica is not expected to occur as this product is supplied as a solution. If the product is dried/abraded, appropriate protective measures should be taken to reduce/eliminate silica exposures.

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If irritation develops/persists, move victim from exposure source and into fresh air. Flush eyes with water for fifteen (15) minutes. Do not attempt to remove solids/semi-solids from the eyes. Seek immediate medical attention.

SKIN CONTACT: Remove contaminated shoes/clothing. Cleanse affected areas thoroughly by washing with mild soap and water. If irritation occurs/persists, seek medical attention. Do not reuse clothing unless thoroughly decontaminated.

INHALATION: If respiratory symptoms develop, move victim from exposure source and into fresh air. If symptoms persist, seek medical attention.

INGESTION: Do not induce vomiting. Vomiting will cause additional damage to the digestive tract. Wash mouth out with water and seek immediate medical attention. If vomiting spontaneously occurs, keep the head below the hips to prevent lung aspiration.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

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SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: 273 °F

EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.

CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, formaldehyde, nitrogen oxides and silicon dioxide.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Clear area of unauthorized/unprotected personnel. Do not enter confined fire space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH-approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate hazard area of unprotected personnel. Dike/contain spilled material. Take up with an appropriate absorbent and place in marked/sealed containers for proper disposal. Handle contaminated spill articles and and rinsate as above.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact.

SAFE STORAGE: Keep containers closed when not in use. Store in cool/dry location.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name:	OSHA				ACGIH			
	PEL	PEL/CEILING	PEL/STEL	SKIN	TWA	TLV/CEILING	TLV/STEL	SKIN
1. Silica, crystalline	See below***	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2. Butan-2-one-O,O'- (methylsilylidine)trioxime	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3. Titanium Dioxide	15 mg/m ³⁺	N/E	N/E	N/E	10 mg/m ³	N/E	N/E	N/E
4. 3-Triethoxysilylpropan-1- amine	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E

*: No exposure is anticipated as the product is a solution.

**: 10/(%silica+2) Respirable Dust +: Total Dust N/E: Not Established

ENGINEERING CONTROLS: None normally required under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/E	VAPOR DENSITY: N/D	% VOLATILE BY VOLUME: N/A
EVAPORATION RATE: N/A	pH LEVEL: N/D	% VOLATILE BY WEIGHT: N/A
WEIGHT PER GALLON: 11.00	PRODUCT APPEARANCE: Viscous Liquid	VOC CONTENT: 48 g/L
ODOR: Mild Organic, Nearly Odorless	ODOR THRESHOLD: N/D	MELTING/FREEZING POINT: N/D
FLASH POINT: See Section 5	FLAMMABILITY: N/D	UEL/LEL: N/D
VAPOR PRESSURE: N/D	RELATIVE DENSITY: N/D	SOLUBILITY: N/D
PARTITION COEFFICIENT: N/D	AUTOIGNITION TEMPERATURE: N/D	DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D	<i>N/A: Not Applicable N/D: Not Determined N/E: Not Established</i>	

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: Oxidizing agents and high humidity conditions

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and silicon dioxide. Formaldehyde may be generated at temperatures of 300 °F or above. Formaldehyde is carcinogenic, a respiratory sensitizer, and an irritant.

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SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact may cause mild to moderate eye irritation. Chemical burns are possible.

SKIN CONTACT: Direct contact may result in mild to moderate irritation.

INHALATION: At high concentrations transient central nervous system impacts are possible (headache, nausea, lightheadedness).

INGESTION: May cause irritation of the digestive tract

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, and rash.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin disorders may be aggravated by overexposure to this product.

OTHER HEALTH EFFECTS: Methylethylketoxime vapor is a curing by-product that is released when the coating comes in contact with humid air. It is recommended that workplace exposure levels be kept to less than 3 ppm.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E

DEGRADABILITY: N/E

BIOACCUMULATIVE POTENTIAL: N/E

SOIL MOBILITY: N/E

OTHER ADVERSE EFFECTS: N/E

N/E: Not Established

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Non-hazardous waste when fully cured. Uncured product is suitable for incineration.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Non-hazardous material.

UN NUMBER: None.

HAZARD CLASS: None.

PACKING GROUP: None.

UN PROPER SHIPPING NAME: None.

ENVIRONMENTAL HAZARDS: Not determined.

BULK TRANSPORTATION INFORMATION: Not applicable. Product not supplied in bulk form.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 3/1/2023

PREPARED BY: Dave Carey

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.