



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: **KNIGHTSHIELD KS-6100** Part Number: **9061000**
 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: 5/17/2023
 Product Use: Caustic Cleaner

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS		HAZARD STATEMENTS
Health	2	DANGER!
Fire	0	Harmful if swallowed. (Category 4)
Reactivity	1	May be fatal if swallowed and enters airway. (Category 1)
Personal Protection		Causes severe skin burns and eye damage. (Category 1B)

PRECAUTIONARY STATEMENTS
 Avoid direct contact.
 Wear protective clothing.
 Avoid inhalation of mists/vapors.



SECTION 3: HAZARDS COMPONENTS

Chemical Name:	CAS Number	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@25°C)
1. Sodium Hydroxide	1310-73-2	1-5	No	N/A	N/A
2. Ethoxylated Alcohols	68439-46-3	6-10	No	N/A	N/A
3. Sodium Metasilicate	6834-92-0	1-5	No	N/A	N/A
4. Sodium Alkane Sulfonate	5324-84-5	1-5	No	N/A	N/A

N/A = Not Applicable

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: Immediately flush eyes with water. Seek immediate medical attention.
SKIN CONTACT: Immediately remove contaminated clothing and wash affected areas with soap and water. If persistent irritation occurs, seek medical attention.
INHALATION: Move victim from exposure source and into fresh air. If symptoms persist, seek medical attention.
INGESTION: Immediately seek medical attention. Do not induce vomiting and do not give anything by mouth.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: This product will not support combustion.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
CHEMICAL/COMBUSTION HAZARDS: Carbon Monoxide and/or Carbon Dioxide.
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: 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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Dike and contain. Take up with an absorbent material and place in sealed/marked containers for disposal. Handle spill clean-up materials and rinsate as contaminated materials. Avoid direct contact and utilize appropriate personal protective equipment.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact and inhalation of vapors mists.

SAFE STORAGE: Keep containers closed when not in use. Store in cool, dry location. Prevent product from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Chemical Name:</u>	<u>OSHA</u>					<u>ACGIH</u>		
	<u>PEL</u>	<u>PEL/CEILING</u>	<u>PEL/STEL</u>	<u>SKIN</u>	<u>TWA</u>	<u>TLV/CEILING</u>	<u>TLV/STEL</u>	<u>SKIN</u>
1. Sodium Hydroxide	2 mg/m ³	N/E	N/E	N/E	2 mg/m ³	N/E	N/E	N/E
2. Ethoxylated Alcohols	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3. Sodium Metasilicate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4. Sodium Alkane Sulfonate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A: Not Applicable

ENGINEERING CONTROLS: Use ventilation as required to control vapor concentrations. Vapors/mists may be irritating to the respiratory tract.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 210 °F	VAPOR DENSITY: N/A	% VOLATILE BY VOLUME: N/E
EVAPORATION RATE: >1 (ether = 1)	pH LEVEL: 13.2	% VOLATILE BY WEIGHT: N/E
WEIGHT PER GALLON: 8.91	PRODUCT APPEARANCE: Clear, Green, Liquid	VOC CONTENT: N/A
ODOR: Mild Organic	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: Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, and incomplete combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact is severely irritating to the eyes, causing pain, redness, and swelling. Product is corrosive and may cause chemical burns. Product vapors may also be irritating.

SKIN CONTACT: Direct contact is severely irritating to the skin and may cause chemical burns.

INHALATION: Mists/vapors may be severely irritating to the respiratory tract. Corrosive effects are possible.

INGESTION: Not expected to be an exposure route. If ingested, this product will cause severe irritation of the digestive tract with corrosive effects.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, blurred vision, burning, and redness. Symptoms of skin irritation include redness, pain, and swelling.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: None recognized.

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SECTION 12: ECOLOGICAL INFORMATION		
ECOTOXICITY: N/E	DEGRADABILITY: N/E	BIOACCUMULATIVE POTENTIAL: N/E
SOIL MOBILITY: N/E	OTHER ADVERSE EFFECTS: N/E	<i>N/E: Not Established</i>
SECTION 13: WASTE DISPOSAL INFORMATION		
WASTE DISPOSAL INFORMATION: Unused product is classified as a corrosive hazardous waste (D002). Follow appropriate State/Federal disposal requirements.		
SECTION 14: TRANSPORTATION INFORMATION		
HAZARDOUS/NON-HAZARDOUS MATERIAL: Hazardous		
UN NUMBER: 3267	HAZARD CLASS: 8	PACKING GROUP: III
UN PROPER SHIPPING NAME: Corrosive liquid, basic, organic. N.O.S (Sodium Hydroxide, Sodium Metasilicate)		
ENVIRONMENTAL: None recognized.		
BULK TRANSPORTATION INFORMATION: Not applicable; product not supplied in bulk.		
SPECIAL PRECAUTIONS: Avoid direct contact.		
SECTION 15: REGULATORY INFORMATION		
OTHER REGULATORY CONSIDERATIONS: None recognized.		
SECTION 16: OTHER INFORMATION		
PREPARATION DATE:	5/17/2023	
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.
