



# SAFETY DATA SHEET

This SDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200

## SECTION 1 IDENTITY

TRADE NAME: DK-178

DATE ISSUED: 05-26-2015  
SUPERSEDES:

Telephone Number: (423) 622-9808

\*\* FOR CHEMICAL EMERGENCY CALL CHEM-TEL: (800) 255-3924 \*\*

Manufacturer : Der-Kel, LLC  
Address : 3012 Freeman Ave.  
Chattanooga, TN 37406

## SECTION 2 : HAZARD IDENTIFICATION

Material *:	CAS	Percent	Exposure Limits (Units)
Potassium Hydroxide	1310-58-	48-52	2 (mg/m <sup>3</sup> ) OSHA PEL 2 (mg/m <sup>3</sup> ) ACGIH Ceiling

### HEALTH RATING (NFPA - Scale 0 thru 4)

Flammability - 0      Health - 2  
Personal Protection - K      Reactivity - 1

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: Mixture  
PRODUCT CLASS: Water Treatment Compound  
FORMULA: Proprietary  
DOT Hazard Class: 8  
DOT Proper Shipping Name: Caustic Alkali Liquids, n.o.s.  
DOT Identification Number: UN1719  
Packaging Group: II

CAS Number: N/A  
Reportable Quantity: 11,111 as supplied

## SECTION 4: FIRST AID MEASURES

### EFFECTS OF OVER EXPOSURE

**Eyes:** Can cause permanent eye injury. Symptoms include stinging, tearing, redness and swelling or eyes. Can injure the cornea and cause blindness.

**Skin:** Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of the skin, burns and other skin damage. The feeling of irritation or pain may not occur until several hours after the exposure. Additional symptoms of skin contact may include: hair loss. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during the safe handling and use.

**Ingestion:** Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

**Inhalation:** It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

### EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor pressure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention. Do not remove the victim from water access for transport to a medical facility unless instructed to do so by qualified medical personnel. If possible continue flushing eye gently with water while transporting the victim.

**Skin:** Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion:** Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

#### SECTION 5: FIRE-FIGHTING MEASURES

**FLASH POINT:** Not applicable

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding fire.

**UNUSUAL FIRE and EXPLOSION HAZARDS:** None known.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small spills:** Neutralize and mop up solution.

**Large Spills:** Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Collect and add slowly to large volume of water. Persons not wearing protective equipment should exclude from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading, pump to salvage tank.

**Waste Disposal Method:** Dispose of material in accordance with local, State and Federal regulations.

#### SECTION 7: HANDLING AND STORAGE

**Handling and Storage:**

Store in a cool, well ventilated area, above freezing.

**Other Precautions:**

Do not ingest. Always wear eye and skin protection.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Skin Protection:** Wear impervious gloves. To prevent skin contact, wear impervious clothing and boots.

**Ventilation:** Provide sufficient mechanical ventilation to maintain exposure below exposure levels.

**Respiratory Protection:** If workplace exposure limit of product is exceeded a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specific conditions. Engineering or administrative controls should be implemented to reduce exposure.

**Eye Protection:** Splash goggles, face shield

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:**

212° F

**VAPOR PRESSURE (mmHg):**

Unknown

**% VOLATILE BY WEIGHT:**

96%

**WEIGHT per GALLON:**

8.6 lbs

**EVAPORATION RATE:**

(Butyl Acetate = 1):

not determined

**SOLUBILITY in WATER:**

Soluble

**VAPOR DENSITY(Air = 1):**

Unknown

**APPEARANCE & ODOR:**

clear liquid, little odor

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data.

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY (MATERIALS TO AVOID):** Copper, organic materials, reactive metals such as aluminum and magnesium, strong mineral acids, and strong organic acids. Can react chemically with reactive metals such as aluminum, zinc, magnesium, copper, etc., to release hydrogen gas, which can form explosive mixtures with air

**SECTION 11: TOXICOLOGICAL INFORMATION**

**TSCA:** The intentional ingredients of this product are listed.

**CERCLA:** 40CFR 302.4 (a)

Component	RQ (lbs)
Sodium Hydroxide	1000

**SARA 302 Components:** 40 CFR 355 Appendix A

None

**Section 311/312 Hazard Class:** 40 CFR 370.2

Immediate (x)    Delayed ( )    Fire ( )    Reactive ( )

Sudden release of pressure ( )

**SARA 313 Components:** 40 CFR 372.65

None

**SECTION 16: OTHER INFORMATION**

. This SDS was prepared May 26, 2014. Additional information will be provided in a medical emergency to qualified medical personnel.