

SAFETY DATA SHEET

Auto Kleen Detergent Ultra Hard Water

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

DISTRIBUTOR: Kleen Solutions, Inc.
1360 West Crowell Lane
Halsey, OR 97348

INFORMATION PHONE: (866) 77-KLEEN / (866) 775-5336

For Medical and Chemical Emergencies **CHEMTREC: 1-800-424-9300**

PRODUCT NAME: Auto Kleen Detergent Ultra Hard Water
PRODUCT NUMBER: KS- 250HW
DATE PREPARED: 06/15/07
LAST REVISION: 09/26/2022

USES: Dish Washing Detergent for industrial automatic machines.
RESTRICTIONS: Industrial use only.

PURE: **LIQUID:**
MIXTURE: **SOLID:**

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW:

GHS CLASSIFICATION: Corrosive to Metals (Category 1) Skin: (Category 1A) Eyes: (Category 1)
Acute Toxicity Oral: (Category 5) Acute Toxicity Inhalation: (Category 5)

GHS Label elements, including precautionary statements

SIGNAL WORD: **Danger**

PICTOGRAM:



HAZARD STATEMENT(S):

H290: May be corrosive to metals
H303: May be harmful if swallowed
H314: Causes severe skin burns and eye damage
H333: May be harmful if inhaled

PRECAUTIONARY STATEMENT(S):

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 +P351 +P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 IF SKIN: irritation or rash occurs: Get medical advice/attention.
P337+P313: IF eye irritation persists: Get medical advice/attention.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.

INHALATION: Vapors, liquid and mists are extremely corrosive to the nose, throat and mucus membranes. Bronchitis, pulmonary edema, and chemical pneumonitis may occur. Irritation, coughing, chest pain and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Breathing high concentrations may result in death.

INGESTION: Vapors, liquid and mists are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting and collapse. Swallowing large quantities can cause death.

SKIN CONTACT: Vapors, liquid and mists are extremely corrosive to the skin. Vapors will severely irritate the skin, and liquid and mists will severely burn the skin. Prolonged skin contact will burn or destroy surrounding tissue and death may accompany burns which extend over large portions of the body. A latent period may exist between exposure and sense of irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, coughing, redness of skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name	CAS #	Range Wt. %
POTASSIUM HYDROXIDE	1310583	10 –15%

4. FIRST AID MEASURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin or respiratory conditions. Repeated overexposure may cause kidney and liver exposure.

SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Water fog, dry chemical foam or carbon dioxide. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and a NIOSH-approved self-contained breathing apparatus with full face piece operated in a pressure positive mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known. **COMBUSTION PRODUCTS:** Oxides of Carbon

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Keep out of water supply.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS: **For industrial use only. Keep away from children.**

Keep containers closed while not in use. Personnel should be thoroughly trained in safety.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

Chemical Name POTASSIUM HYDROXIDE	OSHA PEL PEL = 2mg/M3	ACGIH TLV STEL = 2 mg/M3
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PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK/HYGENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, safety shower, eyewash.

9. PHYSICAL AND CHEMICAL PROPERTIES:

a) Appearance: Deep Pink Liquid	k) Vapor pressure: No data Available
b) Odor: slight chemical odor	l) Vapor density: No data Available
d) pH: 14	m) Relative density (Specific Gravity): 1.2
e) Melting point/freezing point: No data Available	n) Water solubility: Complete
f) Initial boiling point and boiling range: 208 deg F	p) Auto-ignition temperature: n/a
g) Flash point: n/a Method Used: n/a	r) Viscosity: No data Available
h) Evaporation rate: No data Available	-) Pounds Per Gallon: 10.1
j) Upper flammable limit: n/a	OTHER: No other data is available for this product. . . .

10. STABILITY AND REACTIVITY

STABLE: Stable under recommended storage conditions.

INCOMPATIBILITY: Reactive Metals, Strong Acidic and Strong Oxidizing Compounds

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Contact with incompatible materials.

11. TOXICOLOGICAL INFORMATION: No data available.

12. ECOLOGICAL INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS: Dilute with large amounts of water and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION:

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3266	Corrosive Liquids, Basic, Inorganic, n.o.s. (Potassium hydroxide)	8	II

ERG No.: 154

15. REGULATORY INFORMATION: No data available.

16. OTHER INFORMATION:

HMS INFORMATION:	HEALTH: 3	FLAMMABILITY: 0	PHYSICAL HAZARD: 0	PROTECTIVE: C
NFPA INFORMATION:	TOXICITY: 3	FIRE: 0	REACTIVITY: 0	

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