

MATERIAL SAFETY DATA SHEET

Japanese/Asian Extender

MSDS Part No. 804-556-000

Kleen King (Japanese/Asian Extender), KK032

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kleen King (Japanese/Asian Extender), KK032
 Product Description: Sodium hydroxide solution
 Manufacturer: Century Mfg. Co., 9231 Penn Ave. S., Minneapolis, MN 55431
 24-Hour Emergency Phone: 800-255-3924, (Bus. Phone: 612-884-3211)

HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)
 Health: 2 Flammability: 0 Reactivity: 0

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Composition</u> | <u>CAS Number</u> | <u>Percent by Wt.</u> |
|--------------------|-------------------|-----------------------|
| Sodium hydroxide | 1310-58-3 | 2.5 |

3. HAZARDS IDENTIFICATION

Emergency Overview:

1. Red free-flowing liquid.
2. May cause severe irritation or chemical burns to tissues of eyes, mouth, throat and esophagus.

Potential Health Effects:

Eye Contact: Direct contact with product will cause irritation; may be severe.
 Skin Contact: Prolonged or frequent skin contact will cause irritation and may cause chemical burns.
 Inhalation: Inhalation of mist may irritate respiratory passages.
 Ingestion: Harmful if swallowed. Corrosive liquid may cause damage to tissues of the mouth, throat and esophagus.

4. FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes and seek medical attention.
 Skin Contact: Wash affected areas with soap and water. Remove contaminated clothing and Launder before reuse.
 Inhalation: Remove affected person to fresh air and treat symptoms.
 Ingestion: If conscious, give water to dilute and contact physician immediately. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: N/A, water based product
 Flammable Limits: Not Applicable
 Extinguishing Media: Foam, CO₂, dry chemical. Use extinguishing media appropriate for surrounding fire.
 Special Fire Fighting Procedures: Firefighters should wear full protective gear including self contained breathing apparatus.
 Unusual Fire and Explosion Hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:

1. Assess the situation to determine if you can safely handle the spill.
2. Determine if outside help is needed
3. Wear proper protective equipment (See Section 8).
4. Dike to contain; recover all possible. Place in suitable containers.
5. Contact necessary local, state and federal authorities and dispose of in accordance with local, state and federal regulations
6. Reportable quantity of product is 668 gallons (See Section 15).

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7. HANDLING AND STORAGE

1. Store containers closed away from extreme temperatures.
2. Vent carefully when opening; alkaline corrosive liquid.
3. Keep from freezing - irreversible solubility after thawing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Sodium hydroxide: pel 2 mg/m³ ceiling limit

Engineering Controls: Use adequate mechanical ventilation to remain below exposure criteria.

Respiratory Protection: Wear NIOSH/MSHA approved respirator if the exposure criteria is exceeded.

Eye Protection: Chemical goggles and face shield.

Skin Protection: Impervious gloves (Rubber recommended)

Other Protective Equipment: Eyewash and safety shower nearby. Long sleeve work shirt and pants, chemical protective apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue free-flowing liquid

Boiling Point (760 mm Hg): >212°F

Vapor Pressure: <1

Vapor Density (air=1): Not determined

Solubility in Water: Complete

Specific Gravity (H₂O=1): 1.01

Percent Volatile by Volume: Not determined

Evaporation Rate (Bu AC=1): <1

pH: 12.7 ± .3

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: N/A

Incompatibility: Acids, strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Thermal decomposition products may include oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

No information available

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Untreated product is considered an EPA corrosive hazardous waste, D002 (40 CFR 261), at disposal.

Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Transportation and Hazardous Materials Description:

Proper Shipping Name: Sodium Hydroxide Solution

Hazard Class: 8

U.N./N.A. Number: UN 1814

D.O.T. Label: Corrosive

Packing Group: II

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15. REGULATORY INFORMATION

CERCLA (Comprehensive Response Compensation, and Liability Act): CERCLA reportable quantity of product: 668 gal. due to sodium hydroxide.

SARA TITLE III: This product is not formulated with chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

RCRA STATUS: Untreated product is considered an EPA corrosive hazardous waste, D002 (40 CFR 261), at disposal.

Toxic Substances Control Act (TSCA): The ingredients of this product are all on the TSCA inventory list.

16. OTHER INFORMATION

The following label hazard ratings are recommended:

| <u>HMIS</u> | <u>Code</u> |
|----------------|-------------|
| Health-2 | 4-Severe |
| Flammability-0 | 3-Serious |
| Reactivity-0 | 2-Moderate |
| | 1-Slight |
| | 0-Minimal |

OTHER PRECAUTIONS:

For industrial use only. Keep out of reach of children.

Blended and packaged by: National-Purity, Inc., 434 Lakeside Ave. N., Minneapolis, MN 55405

The information provided in this MSDS relates only to Kleen King Japanese/Asian Extender and may not be valid if such material is used in combination with any other material or in any process. In addition, the information contained herein is based on data made available to Century Mfg. Co. by raw material suppliers, who can provide additional information concerning Kleen King Japanese/Asian Extender components.

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.