

## MATERIAL SAFETY DATA SHEET – RIPPER 2

Manufactured by: Alklean Industries, Inc.  
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Pasadena, TX 77503

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### SECTION I – PRODUCT IDENTIFICATION

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Product Name: RIPPER 2  
Synonyms:  
Chemical Description:  
Intended Use: Industrial Detergent

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### SECTION II – HAZARDOUS INGREDIENTS

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Chemical ID	CAS Number	% Weight	OSHA PEL	ACGIH TLV
Sodium Hydroxide	1310-73-2	5–10	2 mg/m <sup>3</sup> 8 hr. ceiling	2 mg/ms
Sodium Metasilicate	6834-92-0	1–5	NE	NE
Tetrasodium ethylene- diamine tetraacetic acid	64-02-8	1–5	NE	NE
Sodium Xylene Sulfonate	1300-72-7			

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### SECTION III – PHYSICAL & CHEMICAL PROPERTIES

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Appearance and Odor: red to brown liquid with mild odor  
Boiling Point °F/C: >212F  
Vapor Pressure (mm Hg): 23  
Vapor Density (Air=1): 1.2  
Solubility in Water: Soluble

pH: 12.75  
Specific Gravity (Water=1): 1.15  
Melting Point (°F/C): 10F  
Evaporation Rate (Butyl Acetate=1):

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### SECTION IV – FIRE AND EXPLOSION HAZARD

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Flash Point (Method): None  
Extinguishing Media: Water, Dry Chemical, Carbon Dioxide, Foam  
Special Fire Fighting Procedures: None  
Fire and Explosion Hazards: None

Flammable Limits (LFL/UFL): N/A

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### SECTION V – HEALTH HAZARD AND FIRST AID

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Routes of Entry (Inhale, Ingest, Skin, Eye): All  
Health Hazard (Acute and Chronic): Threshold Limit Value = 2 mg/m<sup>3</sup>  
Extremely corrosive to all body tissue. Contact will result in severe burns and frequently deep ulceration. Eye contact will produce severe and painful injury. Inhalation of mist will cause irritation and may even cause damage to entire respiratory tract varying from mild irritation of nasal mucous membranes to severe pneumonitis. Symptoms may not be immediately painful or visible.

Carcinogen/Details: No  
OSHA Regulated?

**Signs and Symptoms of Exposure:** See "Health Hazard" above  
Medical Conditions Generally Aggravated by Exposure:

**Emergency and First Aid Procedures:**

Inhalation - Remove from exposure of mist. Get medical attention immediately.

Ingestion - DO NOT induce vomiting. Immediately dilute by drinking water or milk, then neutralize with diluted vinegar or fruit juice. Seek immediate medical attention.

Skin - Promptly remove contaminated clothing under a shower. Wash the affected area with plenty of soap and water; prolong washing in serious cases. Seek immediate medical attention.

Eyes - Immediately flush eyes, including under eyelids and all surfaces, with plenty of water for an extended time, not less than 5 minutes. SPEED IN FLUSHING IS ESSENTIAL. Flush longer if there is any indication of residual chemical in the eye. Seek immediate medical attention.

**SECTION VI – STABILITY AND REACTIVITY**

Stability: Stable                      Conditions to Avoid:

Incompatibles: Aluminum, Zinc, acids, galvanized metal

Hazardous Decomposition: N/A

Hazardous Polymerization: Will Not Occur                      Conditions to Avoid: N/A

**SECTION VII – HANDLING AND STORAGE**

Handling: Keep container closed when not in use.

Respiratory Protection: None needed

Ventilation: Use with adequate ventilation

Hand Protection: Rubber or inert plastic gloves                      Eye Protection: Splash goggles / face shield

Other Protective Clothing/Equipment: Rubber apron or other impermeable clothing.

Work/Hygienic Practices: Wash thoroughly after handling. Wash contaminated clothing before re-use.

Storage: Keep container tightly closed and store in dry area. DO NOT freeze.

Other Precautions: Keep away from children and untrained personnel.

**SECTION VIII – SPILL AND DISPOSAL**

Containment: Stop leak if this can be done without injury.

Clean-Up: Remove as much material as possible. Neutralize remaining spill with dilute acid, then flush with water. Reuse spilled material, if possible.

Disposal: Disposal of waste may be subject to federal, state, and local regulations. Users should review their regulations.

Other Emergency Advice:

**SECTION IX – TRANSPORTING**

DOT shipping class: Caustic, alkali liquids, n.o.s.; class 8

Keep from freezing.

**SECTION X – REGULATORY INFORMATION**

**SECTION XI – NFPA HAZARD RATINGS**

		Health	3		
		Flammability	0		
		Reactivity	2		
0 = Minimal	1 = Slight	2 = Moderate	3 = Serious	4 = Severe	

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**SECTION XII – OTHER INFORMATION**

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*This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.*

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**SECTION XIII – REFERENCES**

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END