

# SAFETY DATA SHEET

Issue Date 12-2-2014

Revision Date 1-14-2016

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Name Renu

**Other Means of Identification**

SDS # K4

Product Code K4

**Recommended Use of the Chemical and Restrictions on Use****Recommended Use**

Coil and Fin Cleaning Compound

**Details of the Supplier of the Safety Data Sheet****Supplier Address**KAYLINE COMPANY  
PO BOX 603207  
CLEVELAND, OH 44103**Emergency Telephone Number**Company Phone Number 1-216-566-9858  
Emergency Telephone 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

**GHS Classification**

Skin Corrosion/Irritation: Category 1

Eye Damage/Irritation: Category 1

**Signal Word**

DANGER

**Symbols****Emergency Overview:****Physical State:** Liquid

Color: Pink

Odor: Characteristic

**OSHA/HCS status:**This material is considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).**Hazard Statements**

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

**Precautionary Statements-Prevention**

Do not breathe mist/vapors/spray.

Wash hands and any exposed skin thoroughly after handling.

Wear protective gloves. Wear eye/face protection. Wear protective clothing.

**Precautionary Statements – Response**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Precautionary Statements – Storage**

Store locked up.

**Precautionary Statements – Disposal**

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

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No	Weight-%
Water	7732-18-5	85-90
Phosphoric Acid	7664-38-2	5-10
Surfactant	26027-38-3	1-5
Sulfonic Acid	27176-87-0	1-5

<b>4. FIRST AID MEASURES</b>
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**First Aid Measures****Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**Skin Contact**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.

**Most Important Symptoms and Effects, both Acute and Delayed****Symptoms**

Direct contact with eyes causes serious damage. Substance causes skin burns. Harmful if swallowed. Keep out of reach of children.

**Indication of any Immediate Medical Attention and Special Treatment Needed****Note to Physicians**

Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

None

### Specific Hazards Arising from the Chemical

Dried product is capable of burning. Combustion products are toxic.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions** Use personal protective equipment as required. Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Incompatible Materials** Strong bases, bleach.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACHIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid	3 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA
Surfactant			
Sulfonic Acid	Data not available	Data not available	Data not available

**Recommended monitoring procedures:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Appropriate Engineering Controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

#### **Individual Protection Measures, such as Personal Protective Equipment**

<b>Eye/Face Protection</b>	Avoid contact with eyes. Wear safety eyewear.
<b>Skin and Body Protection</b>	Wear suitable protective clothing. Use impervious gloves.
<b>Respiratory Protection</b>	Not required with expected use. Ensure adequate ventilation, especially in confined areas.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

Physical State	Liquid	Odor	Characteristic
Appearance	Liquid	Odor Threshold	Not determined
Color	Pink		

<b>Property</b>	<b>Values</b>
pH	1
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	212 Deg F
Flash Point	n/a (tcp)
Evaporation Rate	(H20=1) =1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL=n/a
Lower Flammability Limits	LEL=n/a
Vapor Pressure	20@68F
Vapor Density	Not determined
Specific Gravity	1.044
Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing Properties	Not determined
	Not determined

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
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### **Conditions to Avoid**

Strong bases and bleach. Keep out of reach of children.

**Incompatible Materials**

Strong oxidizers, bases.

**Hazardous Decomposition Products**

Acidic vapors in a fire.

<b>11. TOXICOLOGICAL INFORMATION</b>
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**Information on Likely Routes of Exposure****Product Information****Eye Contact** Causes severe eye damage .**Skin Contact** Causes severe skin burns.**Inhalation** Irritating to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.**Ingestion** Harmful if swallowed.**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (rat)	Data not available	Data not available
Phosphoric Acid 7664-38-2	4,400 mg/kg (rat)	2740 mg/kg (rabbit)	213 mg/m3 (rat)
Surfactant 26027-38-3			
Sulfonic Acid 27176-87-0			

**Information on Physical, Chemical and Toxicological Effects****Symptoms** Please see section 4 of this SDS for symptoms.**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure****Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.**Numerical Measures of Toxicity**

ATEmix-oral: 21,739mg/kg      ATEmix-dermal: 12,658 mg/l

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

Material may be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric Acid 7664-38-2	Data not available	LC50: 138 mg/L Mosquitofish 96 h	Data not available	Data not available
Surfactant 26027-38-3				

**Persistence and Degradability**

Not determined

**Bioaccumulation**

Not determined.

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

- Disposal of Wastes**                      Disposal should be in accordance with applicable regional, national and local laws and regulations.
  
- Contaminated Packaging**              Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

**Note**    Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**                      **UN 1760, CORROSIVE LIQUID, N.O.S.(Phosphoric Acid), 8, III**

**IATA**    Not available.

**IMDG**    Not available.

**IDG**    Not regulated.

**15. REGULATORY INFORMATION**

**International Inventories**

Not determined

**US Federal Regulations**

**SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%
Phosphoric Acid	7664-38-2	10-15

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2		X	X

**California Prop 65:** This product contains no chemicals known to the State of California to cause cancer and reproductive toxicity.

<b>16. OTHER INFORMATION</b>
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<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	Not determined	Not determined	Not determined	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	0	0	C

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**