

RENOVO LABORATORIES

SAFETY DATA SHEET

Revision Date: 12/08/2014

Print Date: 12/8/2014

MSDS Number: 10000101

Version: 1.0

Renovo Clean

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Renovo Laboratories LLC
4646 South Ash Ave. #105
Tempe, AZ 85282

Regulatory Information Number
Telephone 4803347225

Product name Renovo Clean

Product code 101

Product Use Description Alkaline Cleaner

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, clear

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Exposure routes

Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness

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Skin contact

May cause mild skin irritation. Symptoms may include redness and burning of skin. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage

Ingestion

Swallowing this material may be harmful or fatal.

Inhalation

Breathing of vapor or mist is possible.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Eyes,

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, nausea, headache, Skin contact may provoke the following symptoms: redness of the skin, Swelling of tissue, Burn, Blistering, Additional symptoms of eye exposure may include: Redness, blurred vision.

Target Organs

No Data available

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Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity.

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Environmental Effects

None Known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
Sodium Hydroxide	1310-73-2	Less than 6%
Proprietary Sodium Laureth Sulfate solution	None	Less than 10%

4. FIRST AID MEASURES**General Information**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with water. If symptoms persist, seek medical attention. Launder clothing before reuse.

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Ingestion

Seek medical attention. Drink Milk or Gelatin solution. Contact a physician, medical facility, or poison control center for advice. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air

Notes to physician

Hazards: This material (or a component) is an alkaline solution. Do not induce vomiting. Do not give vinegar or acidic drink.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Not Flammable

Hazardous combustion products

Non combustible

Precautions for fire-fighting

Non Flammable

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101**NFPA Flammable and Combustible Liquids Classification**

Non Combustible

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE**Handling**

Keep containers tightly closed when not in use. Do not mix with other cleaning agents. Wash thoroughly after handling. Do not get in eyes, skin or clothing.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Caustic Soda

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	liquid
Color	clear
Odor	Slight soap
Boiling point/boiling range	212 °F /
pH	12 to 12.3
Flash point	none

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Lower explosion limit/Upper explosion limit	none
Vapor pressure	Not determined
Relative vapor density	Not established
Specific Density or Gravity	1.03
Water solubility	fully
Auto-ignition temperature	Not applicable

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Avoid contact with: Acids

Incompatible products

Avoid contact with: Strong oxidizing agents

Hazardous decomposition products

May form: noxious vapor when combined with acid

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

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101**Acute inhalation toxicity**Acute inhalation toxicity - : no data available
Product**Acute dermal toxicity**Acute dermal toxicity - : no data available
Product**Acute dermal toxicity - Components**Caustic Soda : LD50: > 2,000 mg/kg Symptoms: Local irritation
No data available**Acute toxicity (other routes of administration)**Acute toxicity (other : no data available
routes of administration)**12. ECOLOGICAL INFORMATION****Biodegradability**

Biodegradability - Product : no data available

Bioaccumulation

Bioaccumulation - Product : no data available

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Ecotoxicity effects**Toxicity to fish**

Toxicity to fish - Product	: yes, when in concentrate form
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Toxicity to fish - Components

Sodium Hydroxide	: LC50: > 1,000 mg/l Species: Fish
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Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates - Product	: no data available
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Toxicity to daphnia and other aquatic invertebrates - Components

Species: Aquatic invertebrates

Toxicity to algae

Toxicity to algae - Product	: no data available
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Toxicity to algae - Components

: no data available

Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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101**13. DISPOSAL CONSIDERATIONS****Waste disposal methods**

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction.

14. TRANSPORT INFORMATION**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

N.O.S.

UN 1760	Corrosive Liquid,	II			
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U.S. DOT - RAIL

UN 1760	Corrosive Liquid	CBL		II	
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U.S. DOT - INLAND WATERWAYS

UN 1760	Corrosive Liquid	CBL		II	
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TRANSPORT CANADA - ROAD

UN 1760	Corrosive Liquid	8		II	
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TRANSPORT CANADA - RAIL

UN 1760	Corrosive Liquid	8		II	
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101**TRANSPORT CANADA - INLAND WATERWAYS**

UN	1760	Corrosive Liquid, N.O.S.	8	II
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1760	Corrosive Liquid, N.O.S.	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1760	Corrosive Liquid, N.O.S.	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1760	Corrosive Liquid, N.O.S.	8	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1760	Corrosive Liquid, N.E.P.	8	II
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
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SARA Hazard Classification
SARA 311/312 Classification

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16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Renovo Laboratories.