

# Material Safety Data Sheet

(MSDS)

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## SECTION 1 - MANUFACTURER INFORMATION

|                                  |                           |  |
|----------------------------------|---------------------------|--|
| <b>Manufacturer Name:</b>        | Decon Laboratories, Inc.  |  |
| <b>Trade Name:</b>               | <b>Contrad® 100</b>       | <b>Emergency Telephone</b><br>U.S.: (800) 424-9300<br>Canada: (703) 527-3887 |
| <b>Chemical Name or Synonym:</b> | Liquid Alkaline Detergent | <b>Info Telephone:</b> 610-755-0800  |
| <b>Mfg. Address:</b>             | 460 Glennie Circle        |  |
| <b>City:</b>                     | King of Prussia           | <b>State, Zip:</b> PA 19406  |

## SECTION II - HAZARDOUS INGREDIENTS

| CAS Number | Chemical Name       | Percent | PEL                  | C | S | TLV                  | C | S | Units | 313? |
|------------|---------------------|---------|----------------------|---|---|----------------------|---|---|-------|------|
| 1310-58-3  | Potassium Hydroxide | <28     | 2 mg/m3<br>(ceiling) |   |   | 2 mg/m3<br>(ceiling) |   |   |       |      |

**Additional Information:**

Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200)

## SECTION III - PHYSICAL DATA

|                                      |  |   |      |
|--------------------------------------|--|---|------|
| <b>Boiling Point (°F):</b>           | >212   | <b>Specific Gravity (H<sub>2</sub>O=1@25C):</b> | 1.27 |
| <b>Vapor Pressure (mm of Hg):</b>    | Like Water                                       | <b>% Volatiles by wt:</b>                       | 80   |
| <b>Vapor Density (Air=1):</b>        | 60-90F: Like H <sub>2</sub> O                    | <b>pH 1% Solution:</b>                          | 12.4 |
| <b>Freezing Point (°F):</b>          | N/A  | <b>pH as Distributed:</b>                       | >13  |
| <b>Solubility in H<sub>2</sub>O:</b> | Complete   | <b>Evaporation Rate (ether=1):</b>              | N/A  |
| <b>Appearance:</b>                   | Clear, light straw liquid; slight chemical odor. |   |      |

## SECTION IV - FIRE AND EXPLOSION DATA

|                                     |   |             |    |             |    |
|-------------------------------------|---|-------------|----|-------------|----|
| <b>Flash Point:</b>                 | None to Boiling (TCC)   | <b>LEL:</b> | NA | <b>UEL:</b> | NA |
| <b>Extinguishing Media:</b>         | Product is not flammable or combustible.<br>Use media suitable for the primary source of fire.                |             |    |             |    |
| <b>Special Procedures:</b>          | Use caution when fighting any fire involving chemicals.<br>A self-contained breathing apparatus is essential. |             |    |             |    |
| <b>Unusual Fire / Expl Hazards:</b> | Can react with soft metals to evolve flammable hydrogen gas.  |             |    |             |    |

**Additional Information:**

Hazard Ratings

HMIS: Health = 2 Flammability = 0 Reactivity = 0 Personal Protection = B  
NFPA: Health = 2 Flammability = 0 Reactivity = 0

**Contrad® 100****SECTION V - HEALTH HAZARD DATA****EFFECTS OF OVEREXPOSURE: (Medical Conditions Aggravated/Target Organ Effects).****Acute Health Effects / Symptoms: (Primary Route of Exposure)**

EYES: Causes burns. Mists or use dilution cause irritation. (Primary Route of Exposure)

SKIN: May cause severe irritation and burns.

INHALATION: Mists extremely irritating to mucous membranes, upper respiratory tract.

INGESTION: Corrosive to mouth, throat and stomach. Oral LD50 (rats) estimated &gt;1500 mg / kg.

**CHRONIC HEALTH EFFECTS / SYMPTOMS:** None known.**Carcinogenicity Data:**

NTP: None known

IARC: N

OSHA: N

OTHER: N/A

**First Aid****Eyes:** Flush eyes with plenty of water for at least 15 minutes.  
Seek prompt medical attention.**Skin:** Immediately wash with soap and plenty of water for at least 15 minutes while removing  
Contaminated clothing. Seek medical attention.**Inhalation:** Move victim to fresh air. If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen. Seek medical aid.**Ingestion:** If swallowed, do NOT induce vomiting. Give milk if available or water to dilute.  
Call local Poison Control Center. Never give anything by mouth to an unconscious person.**SECTION VI - REACTIVITY DATA****Stability:** Conditions to avoid: None known.**Incompatibility:** Acids, soft metals, oxidizers.**Decomposition:** CO, CO2, oxides of nitrogen.**Polymerization:** Product will not polymerize.**SECTION VII - SPILL OR LEAK PROCEDURES****Spill Procedures:** Contain spill. Absorb on absorbent material and place in a D.O.T.-approved container for disposal.  
Flush spill site with large quantities of water to the sanitary sewer.**Waste Disposal Procedures:** Unused material is hazardous waste (DOO2, characteristic of corrosivity) due to high pH.**SECTION VIII - SPECIAL PROTECTION INFORMATION****Respiratory:** Where engineering controls are impractical, use NIOSH-approved respirator  
appropriate for conditions.**Eyes:** Wear chemical splash goggles and face shield.**Clothing / Protective Gloves:** Wear rubber gloves. Wear rubber apron and rubber boots.**Ventilation:** Local exhaust ventilation recommended to maintain air concentrations below established limits.**SECTION IX - ADDITIONAL INFORMATION****Safe Handling and Storage:** Precautions to be taken in Handling and Storing.  
Do not get in eyes, on skin, or on clothing. Avoid breathing mist. Keep container closed.  
Wash thoroughly after handling. Read and observe label precautions.**SECTION X – TRANSPORTATION INFORMATION****DOT Hazard Class:** Shipping by ground: UN1814, Potassium hydroxide Solution, 8, PG II

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