



# Material Safety Data Sheet

(Essentially Similar to U.S. Department of Labor Suggested  
Form For Hazard Communication Compliance)

Hazard Ratings

- 4 = Extreme
- 3 = High
- 2 = Moderate
- 1 = Slight
- 0 = Insignificant

## I. Product Identification

**Product Type** - CHEMICAL CLEANER

**Product Name** - OXWELD NO. 81 CLEANING COMPOUND  
ESAB P/N 73585081 (20 lbs.)

**Website:** [www.esabna.com](http://www.esabna.com)

**Classification** - ALKALI CHEMICAL MIXTURE

**Manufacturer** - THE ESAB GROUP, INC.

**Telephone No.** - 1-843-669-4411

**Address** - P. O. Box 100545  
Florence, SC 29501-0545

**Emergency No.** - 1-843-669-4411  
(CHEMTREC) 1-800-424-9300

**THE ESAB GROUP** requests the users of these products to study this Material Safety Data Sheet (MSDS) and the product labels and become fully aware of the product hazards and safety information. To promote the safe use of these products a user should (1) notify and train its employees, agents and contractors concerning the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for these products, and (3) request that such customers notify and train their employees and customers, for these products, of the same product hazards and safety information.

## II. Hazardous Ingredients\*

**IMPORTANT:** This section covers the materials from which this product is manufactured. The fumes and gases produced during normal use of these products are covered in Section V. A double asterisk (\*\*) before an ingredient indicates that this chemical is considered toxic by and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

All applicable requirements for radioactive materials (including exposure limits) contained in 29 CFR 1910.96 (OSHA) and 10 CFR Parts 20 and 40 (NRC) should be met.

Material	(CAS No.)	Weight %	Exposure Limits	
			1989 OSHA PEL-TWA (Revoked)	1993/1971 OSHA TWA
** Sodium Hydroxide	(1310-73-2)	70	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Sodium Carbonate	(497-19-8)	5	None established	None established
Nonionic & Anionic Surfactants ♦		<5	None established	None established
Amino Carboxylate Type Chelating Agent ♦		<5	None established	None established
Anti-dusting Agent ♦		<1	None established	None established
Carboxylate Type Chelating Agent ♦		<20	None established	None established
♦ No CAS Listed.				

\* The term "hazardous" should be interpreted as a term required and defined in the OSHA Hazard Communications Standard (29CFR 1910.1200) and does not necessarily imply the existence of any hazard. Some of the products listed may not contain all of the ingredients shown in Section II. Typical analyses can be found in the appropriate AWS Specification or from your supplier.

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**STATE RIGHT-TO-KNOW**

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**CALIFORNIA Proposition 65**

This product contains the following substances whose levels the State of California has found to cause birth defects or other reproductive harm, which requires a warning under the statute:

None

**MASSACHUSETTS Right-to-Know Substance List (MSL)**

This product contains the following substances on the MSL:

Hazardous Substances: Sodium Hydroxide

Extremely Hazardous Substances: None

**NEW JERSEY Right-to-Know Substance List (NJHSL)**

This product contains the following substances on the NJHSL:

Hazardous Substances: None

Environmental Hazardous Substances: None

Special Health Hazards: Sodium Hydroxide

**PENNSYLVANIA Right-to-Know Substance List (MSL)**

This product contains the following substances whose level requires reporting:

Hazardous Substances: None

Special Hazardous Substances: Sodium Hydroxide

Environmental Hazardous Substances: None

### III. Physical and Chemical Characteristics

<b><u>Specific Gravity</u></b> (H <sub>2</sub> O = 1):	Bulk density 9.8 lbs/gal
<b><u>Solubility in Water, % by wt:</u></b>	Appreciate
<b><u>Odor and Appearance:</u></b>	Tan powder with small beads; no odor.

### IV. Fire & Explosion Hazard

Non-flammable. Welding arc and sparks can ignite combustible and flammable products. See ANSI Z49.1 "Safety in Welding and Cutting" (referenced in Section VII) for fire prevention and protection information. If necessary, flood with water taking care not to splatter or splash this material. Wear full protective clothing. Reacts with aluminum and zinc giving off hydrogen gas. Powder in contact with moisture or water may generate sufficient heat to ignite combustible materials.

### V. Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Avoid contact with aluminum or zinc as the reaction will give off hydrogen gas. Powder in contact with moisture or water may generate sufficient heat to ignite combustibles.

**Incompatibility (materials to avoid):** Aluminum, zinc, hot water at or above 110°F.

**Hazardous Combustion or Decomposition Products:** Chemical components of materials in Table II.

**Hazardous Polymerization:** Will not occur.

## VI. Physical and Health Hazard Data

**Threshold Limit Value:** See Section II.

**Effects of Overexposure and Emergency and First Aid Procedures:**

Direct contact may cause burns of eyes and skin. Inhalation of dust or mist may cause irritation of mucus membranes. May be harmful, if swallowed. IN CASE OF EMERGENCY, call for medical air. Employ first aid techniques recommended by the American Red Cross. Otherwise, IN CASE OF CONTACT, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, immediately call a physician. IF INHALED, remove victim to fresh air. Call a physician. IF SWALLOWED, do not induce vomiting. If victim is conscious, dilute with plain water by drinking two glasses for an adult, one glass for a child. Call a physician. Remove contaminated clothing and shoes. Wash thoroughly before reuses.

**Carcinogenic Assessment:** Not shown as known or suspected carcinogen by IARC, NTP or OSHA.

## VII. Precautions for Safe Handling and Use/Applicable Control Measures

Read and understand the manufacturer's instructions and the precautionary label on this product. See American National Standard Z-49.1, "Safety in Welding and Cutting," published by the American Welding Society, P. O. Box 351040, Miami, FL 33135 and OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Washington, D.C. 20402; and ESAB's publications 52-529 and 2035 for more details on many of the following:

**Steps to be Taken if Material is Released or Spilled:** Sweep up dry powder. Flush area with plenty of water. Neutralize remaining traces with dilute acid, e.g. acetic, immediately after flushing or by covering with sodium bicarbonate. Flush area again with water.

**Waste Disposal Method:** Neutralize with acidic material, dilute and discharge in accordance with Federal, State, and local regulations.

**Respiratory Protection:** Depends on specific use, conditions and location. Use enough ventilation or personal respiratory protection. See OSHA 29 CFR 1910.

**Ventilation – Local Exhaust:** Provide adequate ventilation for removal of dust and, if material is hot, for removal of mist.

**Protective Gloves:** Rubber, neoprene, or vinyl.

**Eye Protection:** Safety goggles.

**Other Protective Equipment:** Rubber, neoprene, or vinyl apron, sleeves and/or other suitable protective clothing such as face shield. Recommend eye bath and safety shower near area.

Wash thoroughly after handling. Remove contaminated clothing and shoes. Wash before reuse. Use only as instructions indicate.

Never use contaminated container for anything else. Highly alkaline industrial product for industrial use only.

**Other Handling and Storage Conditions:** Keep container closed when not in use. Do not create dust cloud. Store separately from acids in cool, dry, ventilated, raised area. Keep away from moisture and combustible materials.

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The opinions expressed in this MSDS are those of qualified experts within **THE ESAB GROUP**. We believe that the information contained herein is current as of the date of this MSDS. Since the use of this information and these opinions and the conditions of use of these products are not within the control of **THE ESAB GROUP**, it is the user's obligation to determine the conditions of safe use of these products.