

Safety Data Sheet for: Watcon 1437

1. Identification

Name of Product Watcon 1437

Recommended Use Boiler Water Treatment

Producer Watcon, Inc.
2215 South Main Street
South Bend, IN 46613
574.287.3397

Emergency CHEMTREC 800.492.6300

2. Hazards Identification

GHS Classification:

Health	Environmental	Physical
Skin Irritation – Category 2 Eye Corrosion – Category 1 Target Organ Toxicity – Category 2	Harmful to aquatic life - Category 3	Corrosive to Metals

GHS Label



Hazard Statements	Precautionary Statements
Corrosive to eyes. Irritating to skin and the respiratory system.	Occupational exposure to this material has not been reported to cause significant adverse health effects. This material is not expected to produce significant adverse human health effects when recommended safety precautions are followed. This material may irritate mucous tissues if inhaled or swallowed Avoid breathing mists or vapors Avoid contact with strong oxidizers, light metals, or light metal alloys. Wear safety glasses or goggles and chemically impenetrable gloves. Eye wash fountains in the workplace are recommended.

3. Composition / Information on Ingredients

Component	CAS Number	Weight
Sodium Hydroxide	1310-73-2	55 – 58
Sodium Carbonate	497-19-8	2 - 4

4. First Aid Measures

Eye: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

Ingestion: Rinse with large amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one to two glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose, or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

5. Fire Fighting Measures

Fire Hazard: Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire. **Fire Fighting:** Move container from fire area if it can be done without risk. Cool containers with water. Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

6. Accidental Release Measures

Important: Before responding to a spill or leak of this product, review each section of the MSDS. Follow the recommendations in the Handling and Storage Precautions section. Whenever feasible, make sure that spilled or leaked product does not come in contact with materials listed as incompatible. If noxious fumes are present, consider evacuation of enclosed areas.

Minimize the area affected by the release. Block any potential routes to water systems. Assess the impact on contaminated environments based on 1) the product's toxicological and chemical properties and 2) the size and location of the spill. Determine if federal, state, and/or local release notification is required. Recover as much of the product for reuse as possible. Spill or leak residuals may have to be collected and disposed. Clay, soil, or commercial absorbents may be used to recover material that cannot be reused. Flushing residual material to an industrial sewer, if present, may be acceptable if authorized approval is obtained. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills and leaks to the sewer system. Follow all federal, state, and local regulations governing the disposal of waste materials.

7. Handling and Storage

Precautions for Safe Handling: Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where this material is used. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to product. When mixing, slowly add to water to minimize heat generation and spattering.

Safe Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet). **Incompatibilities/ Materials to Avoid:** Acids and halogenated compounds, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys, Releases heat when diluted in water

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

INGREDIENT NAME	ACGIH TLV	OSHA PEL	OTHER LIMIT
Sodium Hydroxide	None	2 mg/m ³	None

ENGINEERING CONTROLS: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear chemical safety goggles with a face-shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Always place pants legs over boots. Contaminated clothing should be removed, then discarded or laundered. Discard contaminated leather goods.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types: Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek, Tychem

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday. When using do not eat or drink. When using do not smoke.

9. Physical and Chemical Properties

Physical state Liquid Appearance: Clear to opaque

Color: Dark Brown

Odor: Odorless

Odor Threshold [ppm]: No data available.

Decomposition Temperature: No data available

Boiling Point: > 212°F (100°C)

Vapor Density (air=1): No data available

Relative Density/Specific Gravity(water=1): 1.1 @ 20 °C

Density: 8.8 - 13.0 lbs/gal @ 15.6 °C

Water Solubility: 100%

Volatility: No data available

Evaporation Rate (ether=1): No data avail

10. Stability and Reactivity

Reactivity: Soluble in water, releasing heat sufficient to ignite combustibles. Reacts with metals, and may form hydrogen gas.

Chemical Stability: Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions: Mixing with water, acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Conditions to Avoid:(e.g., static discharge, shock, or vibration) -. None known.

Incompatibilities/ Materials to Avoid: Acids and halogenated compounds. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys. Releases heat when diluted in water.

Hazardous Decomposition Products: Toxic fumes of sodium oxide

Hazardous Polymerization: Will not occur.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

Eye contact: Corrosive. Causes serious eye damage which can result in: severe irritation, pain and burns, and permanent damage including blindness.

Skin contact: Corrosive. Causes severe skin burns. Prolonged or repeat skin exposures can result in dermatitis.

Inhalation: Corrosive. Inhalation injury may result from ingestion and/or aspiration of this material. May cause severe irritation of the respiratory tract with potential airway compromise, coughing, choking, pain, and burns of the mucus membrane and respiratory system. This material can be extremely destructive to the tissue of the mucus membranes and respiratory system. Aspiration may cause chemical pneumonitis, pulmonary edema, damage to lung tissue, death.

Ingestion: Corrosive. If swallowed, may cause severe oral and esophageal, mucus membrane, and gastrointestinal burns and possible perforation. If swallowed, may pose a lung aspiration hazard during vomiting.

Chronic Effects: Repeated or prolonged skin contact may result in dermatitis.

COMPONENT TOXICITY DATA: Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data, if given.

<u>Component</u>	<u>LD50 Oral:</u>	<u>LD50 Dermal:</u>	<u>LC50 Inhalation:</u>
Sodium Hydroxide 1310-73-2		1350 mg/kg (Rabbit)	
Sodium Carbonate 497-19-8	2800 mg/kg (rat)		

12. Ecological Information

ECOTOXICITY DATA:

Aquatic Toxicity: This material has exhibited moderate toxicity to aquatic organisms. Data provided are for sodium hydroxide.

Fish Toxicity: LC50 Brook trout: 25 ppm/24 hr LC50 King salmon: 48 ppm

Invertebrate Toxicity: EC50 Daphnia magna: 100 ppm EC50 Shrimp: 33 - 100 ppm/48 hr. EC50 Cockle: 330 - 1000 ppm/48 hr.

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment

BIOCONCENTRATION: This material is not expected to bioconcentrate in organisms.

BIOACCUMULATIVE POTENTIAL: Does not bioaccumulate.

MOBILITY IN SOIL: No data available.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms. This material has exhibited moderate toxicity to aquatic organisms.

13. Disposal Considerations

Waste from material: Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

Container Management: Dispose of container in accordance with applicable local, regional, national, and/or international regulations.

Container rinsate must be disposed of in compliance with applicable regulations.

14. Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name: Sodium Hydroxide, Solution

Hazard Class: 8, Corrosive

UN Number: UN1824

Packing Group: II

15. Regulatory Information

SARA (Superfund Amendments and Reauthorization Act):

SARA 302 Extremely Hazardous Substances List: No components of this product are listed.

SARA 312 Hazard Category: Immediate (Acute) Health Hazard.

SARA 313 Toxic Chemicals List: No components of this product are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): Sodium Hydroxide, RQ 1000#

RCRA (Resource Conservation and Recovery Act) Listed Hazardous Wastes: No components of this product are listed.

TSCA (Toxic Substances Control Act): Components of this product are listed on the TSCA inventory.

16. Other Information

HMIS/NPCA Ratings: Health 2; Flammability 0; Reactivity 1

NFPA Ratings: Health 2; Flammability 0; Reactivity 1

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application, which is not described in the Product Data Sheet, is the sole responsibility of the user.

Watcon, Inc. makes no warranty, either expressed or implied, concerning this product, its performance, merchantability, or fitness for a particular purpose other than that expressly designated. Buyer assumes all risk of use and handling of this material.

Revision: 1

Reason for revision: Convert to GHS format