



ENFORCER Products  
 A Division of Acuity Specialty Products  
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# Material Safety Data Sheet and Safe Handling and Disposal Information

**Section 1. Chemical Product and Company Identification**

**Product name** Scrub-Free Mildew Stain Remover  
**Product Code** ZUMILDEW  
**Date of issue** 09/04/07 **Supersedes**

**Emergency Telephone Numbers** **For a Medical Emergency:**  
 INFOTRAC  
 (877) 541-2016 (Toll Free - Calls Recorded)

**For a Transportation Emergency:**  
 CHEMTREC  
 (800) 424-9300 (Toll Free - Calls Recorded)

**Printing Date:**

**Prepared by** Compliance Services Group  
 Acuity Specialty Products Group  
 1420 Seaboard Industrial Blvd.  
 Atlanta, GA 30318

**Section 2. Composition, Information on Ingredients**

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach	7681-52-9	1 - 10	<b>ACGIH TLV (United States).</b> TWA: 0.5 ppm 8 hour(s). Form: As Cl <sub>2</sub> STEL: 1 ppm 15 minute(s). Form: As Cl <sub>2</sub> <b>OSHA PEL 1989 (United States).</b> TWA: 1 ppm 8 hour(s). Form: As Cl <sub>2</sub> STEL: 3 ppm 15 minute(s). Form: As Cl <sub>2</sub>

**Section 3. Hazards Identification**

**Acute Effects** **Routes of Entry** Dermal contact. Eye contact.

**Skin** May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.  
**Eyes** Causes eye irritation. Inflammation of the eye is characterized by redness, watering, and itching.  
**Inhalation** Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

**Ingestion** May be harmful if swallowed. Can cause gastrointestinal disturbances.

**Carcinogenic Effects** Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

**Chronic Effects** Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

**See Toxicological Information (section 11)**

**HMIS**

<b>Health</b>	<b>1</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>B</b>

**Section 4. First Aid Measures**

**Eye Contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention immediately.

**Skin Contact** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. If irritation persists, get medical attention.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

<b>Flash Point</b>	Not applicable.	<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Not applicable.		
<b>Fire Hazard</b>	May release dangerous gases (chlorine).		
<b>Fire-Fighting Procedures</b>	Use flooding quantities of water. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
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**Section 7. Handling and Storage**

<b>Handling</b>	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Use with adequate ventilation. Wash thoroughly after handling. Do not use with other products. Observe label precautions.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection****Personal Protection****Protective Clothing (Pictograms)**

<b>Eyes</b>	Recommended: Chemical splash goggles.	
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Recommended: Rubber gloves. Neoprene gloves.	
<b>Respiratory</b>	Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Clear. Colorless.
<b>pH</b>	12.5 - 13.0	<b>Odor</b>	Bleach-like Odor
<b>Boiling Point</b>	100°C (212°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.04 (Water = 1)	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Soluble in cold water, hot water.	<b>Evaporation Rate</b>	12.4 compared to Butyl acetate.
		<b>VOC (Consumer)</b>	0 (g/l).

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Slightly reactive with reducing agents, organic materials., metals, acids. Do not use with other products.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> ), Chlorine., Hydrogen Chloride (HCl) Evolves toxic fumes when heated to the decomposition state.

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Sodium Hypochlorite:</b>
	ORAL (LD50): Acute: 8910 mg/kg [Rat].
	DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>Biodegradable/OECD</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Code: D002 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)

Consult your local or regional authorities.

**Section 14. Transport Information**

<b>Proper shipping name</b>	Consumer Commodity
<b>DOT Classification</b>	DOT Class: ORM-D.
<b>UN number</b>	Not applicable.
<b>TDG Classification</b>	Consumer Commodity

**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: Sodium Hypochlorite (RQ 100 lbs)

Clean air act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA inventory.

**State Regulations**

California prop. 65: No products were found.

**WHMIS (Canada)**

Class D-1B: Material causing immediate and serious toxic effects (TOXIC).

Class E: Corrosive liquid.

**Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.*

*Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*