

MATERIAL SAFETY DATA SHEET

WATER GUARD, INC.

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **SOLAR 170A**
CHEMICAL NAME/CLASS: Sodium Nitrite/Sodium Borate
SYNONYMS: Sodium Nitrite/Sodium Borate
DOT SHIPPING CLASSIFICATION: Corrosive Liquid N.O.S. - UN 1824

DISTRIBUTOR'S NAME: **WATER GUARD, INC.**
ADDRESS: P.O. BOX 2226
WILSON, NC 27894

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DATE OF PREPARATION: September, 1998

2. HAZARDOUS INGREDIENTS

	<u>%</u>	<u>TLV UNITS</u>
Tolyltriazole, Sodium Salt	1%	Not Established
Sodium Hydroxide, CAS No. 1310-73-2	<0.5%	TWA=2MG/M3

3. PHYSICAL DATA

Boiling Point: 100° C
Freezing Point: 0° C
Specific Gravity: 1.35
Solubility in water: 100%
% Volatiles by Volume: <1% by water
Appearance and Odor: Red liquid, nearly odorless
pH: 13.5

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not applicable
Autoignition Temperature: Not applicable

Special fire fighting procedures: Full protective equipment including self-contained breathing apparatus should be used. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Unusual fire and explosion hazards: Oxidizing agent. Will stimulate the combustion of organic matter. At high temperatures 600° - 750° F or above, will give off toxic oxides of nitrogen fumes. Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers.

5. HEALTH HAZARD DATA

Threshold limit value: None established. For Sodium Hydroxide TWA-2MG/M3

Effects of Overexposure:

Flushed face, uneven heart action, tremors, dizziness, and nausea if ingested. Contact can irritate skin and temporarily yellow skin in lengthy exposure. Corrosive. It is an irritant. Prolonged contact can be destructive to tissue. Contact with eyes may severely damage delicate eye tissue.

Emergency and First Aid Procedures:

If on skin: Wash affected area thoroughly with soap and water. Remove contaminated clothing, rings, etc. If in eyes: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If swallowed: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large amounts of water, vinegar 1:4 or lemon juice. Follow with milk. Seek medical attention.

SOLAR 170A is a highly caustic material and should be considered corrosive to the eyes and skin.

6. REACTIVITY DATA

Stability: Stable

Incompatibility - (Materials to avoid): Acidic and reducing materials (E.G. Cyanides, Thiocyanates, Thiosulfates, Etc.), Ammonium salts, and combustible organics.

Hazardous decomposition products: By fire: Carbon dioxide, Carbon monoxide, Nitrogen oxides, HCN possible in reducing atmospheres.

Hazardous polymerization: Will not occur.

SOLAR 170A MSDS

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7. SPILL AND LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Flush area with water to sanitary sewer. Avoid contaminating streams, ponds, etc. Avoid contact with acid and other incompatible material. Paper, wood or other combustibles contaminated with SOLAR 170A can become a serious fire hazard. Disposal must be in accordance with applicable disposal regulations.

8. SPECIAL PROTECTION INFORMATION

Respiratory protection: If personnel exposure cannot be controlled below applicable exposure limits by ventilation, wear respiratory devices approved by NIOSH/MSHA for protection against organic vapors, dusts, fumes and mists.

Ventilation: Local exhaust is recommended. Protective gloves: Wear rubber gloves. Eye protection: Chemical safety goggles, face shield as necessary. Other protective equipment: Rubber apron, rubber shoes and other protective clothing to avoid contact with the skin.

9. SPECIAL PRECAUTIONS

Precautions to be taken in storage and handling: Store in cool dry place away from acids, combustibles and reducing agents.

SOLAR 170A is corrosive. Avoid contact with eyes, skin and clothing.

Mixtures with incompatible materials may react violently or explode.

10. SHIPPING INFORMATION

Class: 8

UN: UN1824

Packing group: II

Shipping Name: Corrosive Liquid, N.O.S. (contains Sodium Hydroxide)

Shipping Class: 85
