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Material Safety Data Sheet

CW-32

Scale and Corrosion Inhibitor

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: **CW-32**
CHEMICAL DESCRIPTION: Azole Solution
PRODUCT CLASS: Cooling Water
VERSION: 6-2-06

SECTION 2: INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %	OSHA PEL	ACGIH TLV
Sodium tolyltriazole	64665-57-2	50	None established	None established
Sodium hydroxide	1310-73-2	<0.5	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

SECTION 3: HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

Clear yellow to amber liquid.
DANGER! CORROSIVE!
May cause severe irritation or tissue damage to the eye.
May cause severe skin irritation or burns.
May irritate or damage the digestive tract if swallowed.
Product mists may cause respiratory irritation or damage.

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, ingestion, and inhalation

TARGET ORGANS: Eye, skin, and mucous membranes

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Unknown

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: This product may cause severe eye irritation or damage to delicate eye tissue.

SKIN CONTACT: Exposure to this product may cause severe irritation of the skin. If not removed promptly, burns may result. The extent of injury depends on the concentration of the product and the duration of contact. This product is not expected to be absorbed through the skin in harmful amounts or to produce an allergic skin reaction.

INGESTION: Ingestion of this product may cause severe irritation or burns to the mucous membranes of the mouth, throat, esophagus, and stomach.

INHALATION: Breathing mists of this product may be irritating to or could cause damage to the upper respiratory tract and lung tissue proper. Chemical pneumonia could result.

SUBCHRONIC, CHRONIC: Chronic inhalation of product mists may result in irritation of or damage to the tissues of the respiratory system, and an increased susceptibility to respiratory illness. The effects of chronic exposure to the eyes and skin are dependent upon the product concentration and the duration of exposure. Dermatitis, conjunctivitis, or effects similar to those for acute exposure may occur.

CARCINOGENICITY:

NTP: No ingredients listed in this section

IARC: No ingredients listed in this section

OSHA: No ingredients listed in this section

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eye lids to ensure complete rinsing. Seek medical attention immediately.

SKIN CONTACT: Immediately remove contaminated clothing and wash the affected area thoroughly with plenty of soap and water, even if symptoms are not initially present. Seek medical aid if symptoms occur. Wash clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. If victim is conscious and alert, give large quantities of water, then milk to drink. Seek medical aid. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of vomitus into lungs.

INHALATION: If inhalation occurs, remove victim to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, have a trained medical person give oxygen. Seek medical aid.

SECTION 5: FIRE-FIGHTING MEASURES

FLASHPOINT: >200 °F (>93 °C) [TCC]

This product is not by definition a "flammable liquid" or a "combustible liquid".

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

FIRE & EXPLOSION HAZARDS: Product emits toxic gases under fire conditions. 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.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of carbon, nitrogen, and sodium.

NFPA CODES:

Health = 3

Flammability = 0

Reactivity = 0

Special Hazard = None

Hazard Rating Scale: 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wear protective clothing and equipment as specified in Section 8. Ventilate the area of the spill. Contain the spill. Keep unnecessary and unprotected people away from the area of the spill. Recover as much liquid as possible. Do not flush caustic residues to the sewer. Absorb residue on clay, vermiculite, or other inert substance and package in a suitable container for disposal. Dispose of recovered product, if unusable, and used absorbent according to federal, state, and local regulations.

US Regulations (CERCLA) require the reporting of spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Avoid contact with eyes, skin, and clothing.
Avoid breathing vapor or mist.
Use with adequate ventilation.
Wash thoroughly after handling.
Keep containers closed when not in use.

STORAGE:

Store in a cool, dry, well-ventilated area away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles and face shield.

SKIN PROTECTION: Chemical resistant gloves and protective clothing, including boots, gloves, lab coat, apron, or coveralls, as appropriate, to prevent skin contact.

RESPIRATORY PROTECTION: If airborne concentrations exceed published exposure limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134)

ENGINEERING CONTROLS: Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or airborne exposure limits, whichever is lower. Local exhaust is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, the most recent edition, for details.

WORK PRACTICES: An eye wash station and safety shower should be accessible in the immediate area of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

pH: 13.5

SPECIFIC GRAVITY: 1.19 g/mL

SOLUBILITY IN WATER: Complete

BOILING POINT: ~212 °F (~100 °C)

FREEZING POINT: 17.6 °F (-8 °C)

VAPOR PRESSURE: 0.04 mm Hg

VAPOR DENSITY: Not available

APPEARANCE AND ODOR: Clear, yellow to amber liquid with a sweet odor

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High temperature

INCOMPATIBILITIES: Strong oxidizers and acids

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of carbon, nitrogen, and sodium.

SECTION 11: TOXOLOGICAL INFORMATION

ON INGREDIENTS:

Test Material	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Sodium tolyltriazole	735-930 mg/Kg (50% solution)	>2,000 mg/Kg	>1,700 mg/L (Tolyltriazole)
Sodium hydroxide	140-340 mg/Kg	1,350 mg/Kg	Not available

SECTION 12: ECOLOGICAL INFORMATION

ON INGREDIENTS:

Test Material	Aquatic Toxicity Data
Sodium tolyltriazole, 50% solution	14 day LC50 (Daphnia magna): 13 mg/L 21 day LC50 (Daphnia magna): 6 mg/L 48 hr LC50 (Daphnia magna): 246 mg/L 96 hr LC50 (Bluegill sunfish): 191 mg/L 96 hr LC50 (Rainbow trout): 24 mg/L
Sodium hydroxide	96 hr LC50 (Bluegill sunfish): 43 mg/L 96 hr LC50 (Trout): 260 mg/L

SECTION 13: DISPOSAL

RCRA STATUS: Discarded product, as sold, would be considered a RCRA Hazardous Waste based on the characteristic of corrosivity. The RCRA Hazardous Waste Number is D002.

DISPOSAL: Dispose of in accordance with local, state, and federal regulations. Prevent product entry into sewers or waterways.

SECTION 14: TRANSPORTATION

DOT CLASSIFICATION:

Proper Shipping Name: Corrosive liquid, n.o.s.(contains sodium tolyltriazole)

Primary Hazard Class/Division: 8

UN Number: UN 1760

Packing Group: III

Label: Corrosive

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Status: Hazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: EPA Hazardous Substances (40 CFR 302):

<u>Chemical Name</u>	<u>CERCLA Reportable Quantity (RQ)</u>
Sodium Hydroxide	1,000 lb
Product	200,000 lb

(Notify the EPA of spills exceeding this amount.)

SARA TITLE III (Sections 302, 311, 312, and 313):

Section 302 Extremely Hazardous Substances (40 CFR 355):

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>	<u>TPQ</u>
None			

Section 311 and 312 Health and Physical Hazards:

<u>Immediate</u>	<u>Delayed</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactivity</u>
yes	yes	no	no	no

Section 313 Toxic Chemicals (40 CFR 372):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent by Weight</u>
None		

SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health = 3 Flammability = 0 Reactivity = 0

Hazard Rating Scale: 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, THE MANUFACTURER MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.