

MATERIAL SAFETY DATA SHEET

HYDRONIC SYSTEM CLEANER

MSDS
DATE: 5/1/10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HYDRONIC SYSTEM CLEANER
SYNONYMS: None

MANUFACTURER: THE NOBLE COMPANY
ADDRESS: 7300 Enterprise Drive; Spring Lake, MI 49456

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COMMON NAME: Aqueous cleaning solution of nitrites, nitrates and sodium tetraborate.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
SODIUM NITRITE	7632-00-0	3-8%
SODIUM METASILICATE	6834-92-0	2-7%
SODIUM TETRABORATE	1330-43-4	2-6%
SODIUM NITRATE	7631-99-4	1-3%
SODIUM HYDROXIDE	1310-73-2	1-5%
WATER	6771-18-5	>80%

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Skin absorption, inhalation, eye contact, ingestion.

EYES: Will cause irritation upon contact.

SKIN: Prolonged contact with skin can cause irritation.

INGESTION: Irritating to mouth, throat, and stomach. May cause discomfort, nausea, vomiting and diarrhea.

INHALATION: No hazard in industrial use.

CARCINOGENICITY: Product is not considered a carcinogen by OSHA, NTP or IARC.

MEDICAL CONDITIONS: Pre-existing eye or skin conditions may be aggravated by over-exposure to this product.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

SKIN: Wash area with soap and water. Seek medical attention if irritation persists.

INGESTION: Induce vomiting. Only give CONSCIOUS victim two glasses of water and seek medical attention. NEVER give UNCONSCIOUS anything by mouth.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention. Inhalation hazard unlikely due to low volatility of product.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: N/A

Product will not support combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL/LEAK PROCEDURES: Notify safety personnel, evacuate all unnecessary personnel and provide adequate ventilation. If feasible and without risk, clean-up personnel should stop leak. All clean-up personnel should wear proper personal protective equipment.

SMALL SPILL: Clean with inert absorbant and place in recovery drums for disposal.

LARGE SPILL: Dike to prevent further migration of material. DO NOT release into waterways or sewers. Follow applicable federal and state regulations.

SECTION 7: HANDLING AND STORAGE

STORAGE REQUIREMENTS: Store in clean, dry locations away from excessive heat.

HANDLING PRECAUTIONS: Wash thoroughly after handling. Do not get into eyes, on skin, or on clothing. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Eye wash station and safety shower.

VENTILATION : Strong general ventilation or local exhaust.

RESPIRATORY PROTECTION: Organic vapor air purifying respirator if vapors are a nuisance or if the concentrations are above PEL or TLV.

EYE PROTECTION: Chemical splash goggles with indirect or no ventilation.

SKIN PROTECTION: Chemical resistant gloves such as nitrile.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK HYGIENIC PRACTICES: Never eat, drink, or smoke in work areas.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Purple liquid.

ODOR: No odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 12.0

BOILING POINT: BT 212-215 F

SOLUBILITY IN WATER: Soluble

VAPOR DENSITY: >1

SPEC GRAV/DENSITY: 1.09

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Material is stable under normal storage conditions.

CONDITIONS TO AVOID (STABILITY): Excessive heat and open flame.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Cannot occur.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50

SODIUM NITRITE: 120 mg/kg (oral)

SODIUM NITRATE: 4300 mg/kg (oral)

SODIUM TETRABORATE: 3200 mg/kg (oral)

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: As a waste, this product in its raw form DOES NOT MEET the criteria of a hazardous waste as defined by RCRA (40CFR361). Dispose of in accordance with all applicable state, federal, and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT/ DOMESTIC: Not regulated

EXPORT: Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA: Considered hazardous material as defined by 29CFR1910.1200

SARA TITLE III :

311/312 (40CFR370) If stored in excess of the threshold quantities, this product should be reported as a(n):
*IMMEDIATE (acute) HEALTH HAZARD

313 (40CFR372) This product does not contain ingredients which are subject to the reporting requirements of SARA 313.

SECTION 16: OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain ingredients which are on the current Proposition 65 list.

NEW JERSEY RIGHT TO KNOW: This product contains the following ingredients which are non-hazardous, but are among the top five ingredients in this product:

Water	CAS#	7732-18-5
Sodium Nitrite	CAS#	7631-99-4
Sodium Nitrate	CAS#	7631-00-0
Sodium Tetraborate	CAS#	1330-43-4

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