

COMPANY IDENTITY: Noble Company  
PRODUCT IDENTITY: HYDRONIC SYSTEM CLEANER

SDS DATE: 03/13/2015  
ORIGINAL: 03/10/2015

**SAFETY DATA SHEET**

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements of the Global Harmonizing System.  
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this SDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

PRODUCT IDENTITY: HYDRONIC SYSTEM CLEANER  
SYNONYMS: None  
PRODUCT USES: Cleaning Solution

COMPANY IDENTITY: Noble Company  
COMPANY ADDRESS: 7300 Enterprise Dr.  
COMPANY CITY: Spring Lake, MI 49456  
COMPANY PHONE: 1-231-799-8000  
EMERGENCY PHONES: 1-800-878-5788

**SECTION 2. HAZARDS IDENTIFICATION**

**DANGER!!**



**2.1 HAZARD STATEMENTS: (CAT = Hazard Category)**

- (H200s) PHYSICAL: Corrosive to Metals(CAT:1)  
**H290 MAY BE CORROSIVE TO METALS.**
- (H300s) HEALTH: Skin Corrosion/Irritation(CAT:2)  
**H315 CAUSES SKIN IRRITATION.**
- (H300s) HEALTH: Serious Eye Damage/Eye Irritation(CAT:2A)  
**H319 CAUSES SERIOUS EYE IRRITATION.**

**2.2 PRECAUTIONARY STATEMENTS:**

**EXPOSURE PREVENTION: AVOID ALL CONTACT!**

**PREVENT DISPERSION OF MISTS OR DUST!  
AVOID EXPOSURE OF (PREGNANT) WOMEN!**

- P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal**
- P264 Wash with soap & water thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 IF ON SKIN (OR HAIR): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 IF INHALED: Remove victim to fresh air & keep at rest in a position comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present & easy to do - Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P500 Dispose of contents/container following local/regional/federal regulations.

**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Water	7732-18-5	231-791-2	>80
Sodium Nitrite	7632-00-0	-	3-8
Sodium Metasilicate	6834-92-0	-	2-7
Sodium Tetraborate	1330-43-4	-	2-6
Sodium Hydroxide	1310-73-2	215-185-5	1-5
Sodium Nitrate	7631-99-4	-	1-3

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

### SECTION 4. FIRST AID MEASURES

- 4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:  
 See Section 11 for Symptoms/Effects (acute & chronic).
- 4.2 EYE CONTACT:  
 For eyes, flush with plenty of water for 15 minutes & get medical attention.
- 4.3 SKIN CONTACT:  
 In case of contact with skin immediately remove contaminated clothing.  
 Wash thoroughly with soap & water. Wash contaminated clothing before reuse.
- 4.4 INHALATION:  
 After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).
- 4.5 SWALLOWING:  
 Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting.  
 GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

### SECTION 5. FIRE FIGHTING MEASURES

- 5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:  
 NO open flames.
- 5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:  
 Use dry powder.
- 5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:  
 Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
 Do not enter confined fire-space without full bunker gear.  
 (Helmet with face shield, bunker coats, gloves & rubber boots).
- 5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:  
 SLIGHTLY COMBUSTIBLE!  
 Isolate from reducers, heat, open flame, wood, organic materials, and most metals.  
 Oxidizer vapors damage lungs. Symptoms may be delayed.  
 Do not breathe fumes. Continue all label precautions!

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:  
Keep unprotected personnel away.  
Use complete chemical protective suit with self-contained breathing apparatus.
- 6.2 ENVIRONMENTAL PRECAUTIONS:  
Keep from entering storm sewers and ditches which lead to waterways.
- 6.3 METHODS & MATERIAL FOR CONTAINMENT & CLEAN-UP:  
Stop spill at source. Dike and contain. Sweep spilled material into dry, sealable containers.  
If appropriate, moisten first to prevent dusting. Carefully collect remainder,  
Remove to safe place.

### SECTION 7. HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:  
Isolate from reducers, heat, & open flame. Use only with adequate ventilation.  
Avoid prolonged or repeated contact with skin.  
Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear  
impervious to material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut,  
braze, or weld. Continue all label precautions!  
NEVER pour water into this substance. When dissolving or diluting,  
always add it slowly to the water.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
Keep separated from strong oxidants, strong acids, metals, food & feedstuffs. Keep dry.  
Do not store above 49 C/120 F. Keep container tightly closed & upright when not in  
use to prevent leakage.

### SECTION 7. HANDLING AND STORAGE (CONTINUED)

- 7.3 NONBULK: CONTAINERS:  
Store containers in a cool, dry location, away from direct sunlight, sources of intense  
heat, or where freezing is possible. Material should be stored in secondary containers or  
in a diked area, as appropriate. Store containers away from incompatible chemicals (see  
Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and  
use areas, as appropriate. Empty containers should be handled with care. Never store food,  
feed, or drinking water in containers which held this product.
- 7.4 BULK CONTAINERS:  
All tanks and pipelines which contain this material must be labeled. Perform routine  
maintenance on tanks or pipelines which contain this product. Report all leaks immediately  
to the proper personnel.
- 7.5 TANK CAR SHIPMENTS:  
Tank cars carrying this product should be loaded and unloaded in strict accordance with  
tank-car manufacturer's recommendation and all established on-site safety procedures.  
Appropriate personal protective equipment must be used (see Section 8, Engineering  
Controls and Personal Protective Equipment.). All loading and unloading equipment must be  
inspected, prior to each use. Loading and unloading operations must be attended, at all  
times. Tank cars must be level, brakes must be set or wheels must be locked or blocked  
prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading)  
must be verified to be correct for receiving this product and be properly prepared,  
prior to starting the transfer operations. Hoses must be verified to be in the correct  
positions, before starting transfer operations. A sample (if required) must be taken  
and verified (if required) prior to starting transfer operations. All lines must be  
blown-down and purged before disconnecting them from the tank car or vessel.
- 7.6 PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:  
Follow practices indicated in Section 6 (Accidental Release Measures). Make certain  
application equipment is locked and tagged-out safely. Always use this product in areas  
where adequate ventilation is provided. Collect all rinsates and dispose of according  
to applicable Federal, State, Provincial, or local procedures.
- 7.7 EMPTY CONTAINER WARNING:  
Empty containers may contain residue and can be dangerous. Do not attempt to refill or  
clean containers without proper instructions. Empty drums should be completely drained  
and safely stored until appropriately reconditioned or disposed. Empty containers should  
be taken for recycling, recovery, or disposal through suitably qualified or licensed  
contractor and in accordance with governmental regulations. **DO NOT PRESSURIZE, CUT, WELD,  
BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC  
ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.**

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Water	7732-18-5	231-791-2	None Known	None Known
Sodium Nitrite	7632-00-0	-	None Known	None Known
Sodium Metasilicate	6834-92-0	-	None Known	None Known
Borax	1330-43-4	-	None Known	None Known
Sodium Hydroxide	1310-73-2	215-185-5	None Known	None Known
Sodium Nitrate	7631-99-4	-	None Known	None Known

MATERIAL	CAS#	EINECS#	CEILING	STEL (OSHA/ACGIH)	HAP
Sodium Hydroxide	1310-73-2	215-185-5	2 ppm	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### 8.2 APPROPRIATE ENGINEERING CONTROLS:

#### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION

LOCAL EXHAUST: Necessary                      MECHANICAL (GENERAL): Acceptable  
 SPECIAL: None                                      OTHER: None  
 Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

#### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

#### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
 Wash at end of each workshift & before eating, smoking or using the toilet.  
 Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

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## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Violet
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	12.0
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	> 100 C / > 212 F
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-Butyl Acetate=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Not Applicable
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Applicable
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	17.5
VAPOR DENSITY (air=1):	0.670
GRAVITY @ 68/68 F / 20/20 C:	
DENSITY:	1.088
SPECIFIC GRAVITY (Water=1):	1.090
POUNDS/GALLON:	9.080
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	Not Available
TOTAL VOC'S (TVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 20 C (ASTM D445):	Not Available

\* Using CARB (California Air Resources Board Rules).

## SECTION 10. STABILITY & REACTIVITY

- 10.1 REACTIVITY & CHEMICAL STABILITY:  
 Stable under normal conditions, no hazardous reactions when kept from incompatibles.
- 10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:  
 Isolate from extreme heat, & open flame.
- 10.3 INCOMPATIBLE MATERIALS:  
 Isolate from strong oxidizers and reducers.
- 10.4 HAZARDOUS DECOMPOSITION PRODUCTS:  
 Sodium Oxide & Hydroxide, Boron Oxide from burning.
- 10.5 HAZARDOUS POLYMERIZATION:  
 Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 ACUTE HAZARDS

- 11.1.1 SKIN CONTACT:  
 Severe burns to skin, defatting, dermatitis.
- 11.1.2 EYE CONTACT:  
 Severe burns to eyes, redness, tearing, blurred vision.  
 Liquid can cause eye irritation.
- 11.1.3 INHALATION:  
 Severe respiratory tract irritation may occur. Vapor harmful.  
 The applicable occupational exposure limit value should not be exceeded during any part of the working exposure.
- 11.1.4 SWALLOWING:  
 Harmful or fatal if swallowed.

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## SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing disorders of any target organs mentioned in this Document can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid use of this product.

### 11.3 CHRONIC HAZARDS

#### 11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

11.3.2 TARGET ORGANS: May cause damage to target organs, based on animal data.

11.3.3 IRRITANCY: Irritating to contaminated tissue.

11.3.4 SENSITIZATION: No component is known as a sensitizer.

11.3.5 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.3.6 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.3.7 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.3.8 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

### 11.4 MAMMALIAN TOXICITY INFORMATION

#### LD50 (Oral):

Sodium Nitrite:	1200 mg/kg (Rat)
Sodium Nitrate:	4300 mg/kg (Rat)
Sodium Tetraborate:	3200 mg/kg (Rat)

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

#### 12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

#### 12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product. The substance may be hazardous in the environment. Special attention should be given to water organisms.

#### 12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

#### 12.5 DEGRADABILITY

This product is partially biodegradable.

#### 12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

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### SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.  
**ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D003**

### SECTION 14. TRANSPORT INFORMATION

IF > 837 LB / 380 KG OF THIS PRODUCT IS IN 1 CONTAINER, IT EXCEEDS THE RQ OF SODIUM NITRITE. "RQ" MUST BE PUT BEFORE THE DOT SHIPPING NAME.

MARINE POLLUTANT: No  
 DOT/TDG SHIP NAME: Not Regulated  
 DRUM LABEL: None  
 IATA / ICAO: Not Regulated  
 IMO / IMDG: Not Regulated  
 EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

### SECTION 15. REGULATORY INFORMATION

#### 15.1 EPA REGULATION:

##### SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.

##### SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	EINECS#	WT%	(REG. SECTION)	RQ(LBS)
*Sodium Metasilicate	6834-92-0	-	0-10	(302,313,RCRA)	None
*Sodium Tetraborate	1330-43-4	-	0-10	(302,311,312,313,RCRA)	None
*Sodium Nitrate	7631-99-4	-	0- 5	(302,311,312,313)	None

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

#### 15.2 STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

##### CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

#### 15.3 INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CACL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

#### 15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

C: Oxidizing Material.  
 D2B: Irritating to skin / eyes.

This product was classified using the hazard criteria of the Controlled Products Regulations (CPR). This Document contains all information required by the CPR.

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**SECTION 16. OTHER INFORMATION**

**16.1 HAZARD RATINGS:**

HEALTH (NFPA): 2, HEALTH (HMIS): 2, FLAMMABILITY: 0, PHYSICAL HAZARD: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals  
trained in the NFPA & HMIS hazard rating systems.

**16.2 EMPLOYEE TRAINING**

See Section 2 (Hazards Identification). Employees should be made aware of  
all hazards of this material (as stated in this SDS) before handling it.

**16.3 SDS DATE: 03/13/2015**

**NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 03/10/2018.  
Safety Data Sheet was prepared by: Chemical Data Services, e-mail: chemdatsrv@aol.com.