



# Safety Data Sheet

**Issue Date:** 04-02-2014

**Revision Date:** NEW

**Version 1**

## 1: IDENTIFICATION

**Product Identifier:**

Product Name:

**Scale Inhibitor No. 340**

**Other Means of Identification:**

Part Numbers: 4340-01, 4340-05, 4340-08

**Recommended Use of the Chemical and Restrictions on Use:**

Cooling water

**Details of the Author of the Safety Data Sheet:**

Supplier Address:

NU-CALGON WHOLESALER, INC.  
2008 Altom Court  
St. Louis, MO 63146-4151

**Emergency Telephone Number:**

Company Phone Number:

(314) 469-7000  
(800) 554-5499

Emergency Telephone  
Number (24 hr):

CHEMTREC 800-424-9300

## 2: HAZARDS IDENTIFICATION

**Hazard Classification:**

Eye irritation, category 2B  
Specific Target Organ Toxicity – Single exposure,  
category 3

**Signal Word:**

Warning

**Hazard Statements:**

H302: Harmful if swallowed.  
H317: May cause an allergic skin reaction  
H320: Causes eye irritation.  
H335: May cause respiratory irritation.

**Pictograms of Related Hazards:**



**Precautionary Statements:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 - Immediately call a POISON CENTER or doctor/physician.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P332: If skin irritation occurs, get medical advice/attention.

P304 + P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P313: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists, get medical advice/attention

**Description of Other Hazards:**

May be harmful if inhaled or absorbed through skin.

May cause skin irritation.

May cause central nervous system affects.

**3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Weight %
Aminotri(methylenephosphonic acid), pentasodium salt	2235-43-0	15-30
Ethylene glycol	107-21-1	10-20

**4: FIRST-AID MEASURES**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally to ensure complete rinsing. Remove contact lenses, if present, after 5 minutes of flushing, and then continue flushing. Get medical attention if irritation occurs.

**Skin Contact:** In a timely manner remove contaminated clothing and wash the affected area thoroughly with plenty of soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.

**Inhalation:** If inhaled, remove victim to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse out mouth with water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog or fine spray. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foams. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

**Unsuitable extinguishing Media:** A direct stream may cause frothing.

**Protective Equipment and Precautions for Firefighters:** Firefighters should wear full protective clothing including self-contained breathing apparatus

**Specific Hazards Arising from this Chemical:** Toxic gases may form under fire conditions.

**Hazardous Combustion Products:** Thermal decomposition or combustion may produce oxides of carbon, oxides of sodium, and oxides of nitrogen. Acrid smoke and irritating fumes may be produced when ethylene glycol is heated to decomposition.

## 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Ventilate the spill area. Keep unnecessary and unprotected people away from the spill site. Stop or reduce any leaks if it is safe to do so. Notify appropriate government, occupational health and safety, and environmental authorities.

### Methods for Clean-up:

**Small spills:** Soak up spill with an inert absorbent material (e.g. vermiculite, sand, or earth). Place residues in a suitable, covered, properly labeled container. Wash the affected area.

**Large spills:** Contain liquid using an inert absorbent material (e.g. vermiculite, sand, or earth), by digging trenches, or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material.

**Disposal:** Dispose of material in compliance with federal, state, and local regulations.

**Environmental Precautions:** Prevent entry into lakes, ponds, streams, waterways, or public water supplies.

## 7: HANDLING AND STORAGE

### Advice on Safe Handling:

Avoid contact with skin, eyes, and clothing.

Avoid breathing vapors or mist.

Use with adequate ventilation.

Wash thoroughly after handling.

Do not take internally.

Keep containers closed when not in use.

Ensure that containers are properly labeled.  
 Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid).  
 Observe all warnings and precautions listed for this product.  
 Have emergency equipment (for fires, spills, leaks, etc.) readily available.

**Storage Conditions:**

Store in a cool, dry, well-ventilated area away from incompatible materials.  
 Protect against the physical damage of containers.

<b>8: EXPOSURE CONTROL / PERSONAL PROTECTION</b>
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Chemical Name	NIOSH	OSHA PEL	ACGIH TLV
Aminotri(methylenephosphonic acid), pentasodium salt	None established	None established	None established
Ethylene glycol	None established	None established	Ceiling: 100 mg/m <sup>3</sup> (aerosol)

**Eye/Face Protection:** Chemical splash goggles

**Skin and Body Protection:** Chemical resistant gloves and clean body covering clothing.

**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, thus 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.

**General Hygiene Considerations** Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

<b>9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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**pH:** 7.5-8.5

**Specific Gravity:** 1.205-1.285 g/mL

**Flash Point:** Not available

**Solubility In Water:** Complete

**Boiling Point:** Not available

**Freezing Point:** 4.1 °F (-15.5 °C)

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Appearance and Odor:** Clear, light yellow liquid with a mild odor

## 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Oxidizers. Acids. Bases.

**Conditions to Avoid:** Incompatibles

**Hazardous Decomposition Products:** Thermal decomposition or combustion may produce oxides of carbon, oxides of sodium, and oxides of nitrogen. Acid smoke and irritating fumes may be produced when ethylene glycol is heated to decomposition.

## 11: TOXICOLOGICAL INFORMATION

**Likely Routes Of Exposure:** Eye contact, skin contact, ingestion, and inhalation of product vapors or mists

**Acute Toxicity:**

Test Material	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Aminotri(methylenephosphonic acid), pentasodium salt, 40%	>17,800 mg/Kg	>15,800 mg/Kg	None available
Ethylene glycol	4,700 mg/Kg	9,530 mg/Kg	12,111 mg/L

**Acute Symptoms and Effects:**

**Eye:** Contact with this product may cause eye irritation.

**Skin:** Contact with this product may cause skin irritation. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in the absorption of potentially lethal amounts of the product component, ethylene glycol.

**Ingestion:** This product contains ethylene glycol. Ingestion of large volumes of ethylene glycol may result in central nervous system depression and kidney damage. Cardiac failure and pulmonary edema may develop. Early to moderate CNS depression may be evidenced

by giddiness, headache, dizziness, and nausea. Kidney damage may be evidenced by changes in urine output, urine appearance, or edema (swelling from fluid retention).

**Inhalation:** This product is not expected to present an inhalation hazard unless mists or vapors are generated. Significant air concentrations are not achieved unless the product is heated or sprayed as a mist. Exposure to vapors or mists may cause throat irritation, headache, nausea, vomiting, dizziness, drowsiness, central nervous system depression, pulmonary edema, involuntary eye movement, and/or coma.

**Chronic:** No information is available for this product. Information on components follows: Repeated small exposures to the ethylene glycol by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. Exposure may damage a developing fetus.

**Reproductive Effects:** Not established

**Teratogenicity:** Not established

**Mutagenicity:** Not established

**Embryotoxicity:** Not established

**Sensitization to Product:** Not established

**Synergistic Products:** Not established

**Carcinogenicity:** Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

The toxicological properties of this material have not been fully investigated.

## 12: ECOLOGICAL INFORMATION

### Aquatic Toxicity:

Material Tested	Results
Aminotri(methylenephosphonic acid), pentasodium salt, 40%	48 hr EC50 (Daphnia magna): 297 mg/L 96 hr LC50 (Bluegill sunfish): >330 mg/L 96 hr LC50 (Rainbow trout): > 330 mg/L
Ethylene glycol	48 hr LC50 (Daphnia magna): 51,000 mg/L 96 hr LC50 (Fathead minnow): 49,000 mg/L 24 hr LC50 (Goldfish): >5,000 mg/L 96 hr LC50 (Bluegill): 27,540 mg/L 96 hr LC50 (Rainbow trout): 41,000 mg/L

## 13: DISPOSAL INFORMATION

**Disposal:** Dispose of in accordance with local, state, and federal regulations.

### 14: TRANSPORT INFORMATION

Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

**US Department of Transportation (DOT):** Not regulated

**International Maritime Dangerous Goods Code (IMDG):** Not regulated

### 15: REGULATORY INFORMATION

**US Federal Regulations:**

**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>
Ethylene Glycol	5,000 lb
Product	38,170 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	no	no	no	no

**Section 313 Toxic Chemicals (40 CFR 372):**

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

**US State Regulations:**

California Proposition 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**International Inventories:** No data

**16: OTHER INFORMATION****Other Classifications:**

**HMIS Ratings:** Health = 1 Flammability = 1 Reactivity = 0

**NFPA Ratings:** Health = 1 Flammability = 1 Reactivity = 0

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

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While the information and recommendations set forth herein are believed to be accurate as of the date thereof, NU-CALGON WHOLESALER, INC MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.