



## Versenate Hardness Buffer Solution

Safety Data Sheet

Revision date: 03/21/2013

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### Product Identifier

**Product name:** Versenate Hardness Buffer Solution

**Product code:** 205-04

#### Intended Use Of The Product

**Use of the substance/preparation:** Laboratory Reagent

#### Name, Address, And Telephone Of The Responsible Party

OFI Testing Equipment, Inc.  
11302 Steeplecrest Dr.  
Houston, TX 77065 USA  
+1-832-320-7300

<http://www.ofite.com/>

#### Emergency Telephone Number

**Emergency number :** INFOTRAC USA and Canada: 1-800-535-5053 / INFOTRAC Outside USA and Canada: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification Of The Substance Or Mixture

##### Classification (GHS-US)

Acute Tox. 4 (Oral) H302  
Skin Corr. 1B H314  
Eye Dam. 1 H318  
STOT SE 3 H335

#### Label Elements

##### GHS-US labeling

**Hazard pictograms (GHS-US)** :



**Signal word (GHS-US)** :

Danger

**Hazard statements (GHS-US)** :

H302 - Harmful if swallowed  
H314 - Causes severe skin burns  
H318 - Causes eye burns and damage  
H335 - May cause respiratory irritation

**Precautionary statements (GHS-US)** :

P260 - Do not breathe mist, vapors.  
P264 - Wash hands and forearms thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective clothing, protective gloves, eye protection.  
P301+P330+P331+P312 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a doctor if you feel unwell.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

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clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P363 - Wash contaminated clothing before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product identifier	% (W/W)	Classification (GHS-US)
Ammonium hydroxide	(CAS No.) 1336-21-6	53.58	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
Water	(CAS No.) 7732-18-5	39.43	Not classified
Ammonium chloride	(CAS No.) 12125-02-9	6.99	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description Of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** If exposed, move to fresh air. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

**Ingestion:** Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms And Effects Both Acute and Delayed

**General:** Not available

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Corrosive. Causes burns.

**Eye Contact:** Corrosive. Causes burns.

**Ingestion:** Harmful if swallowed.

**Chronic symptoms:** Not available

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing Media

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media:** Use of heavy stream of water may spread fire. Do not use a heavy water stream.

#### Special Hazards Arising From The Substance Or Mixture

**Fire hazard:** Not flammable

**Explosion hazard:** Product is not explosive.

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**Reactivity:** Ammonium hydroxide reacts with many heavy metals and their salts forming explosive compounds. It attacks many metals forming flammable/explosive gas. The solution in water is a strong base, it reacts violently with acids.

### Advice For Firefighters

**Precautionary measures fire:** Not available

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon monoxide. Nitrogen oxides. Ammonia.

### Reference To Other Sections

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal Precautions, Protective Equipment And Emergency Procedures

**General measures:** Handle in accordance with good industrial hygiene and safety practice.

#### For Non-Emergency Personnel

**Protective equipment :** Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods And Material For Containment And Cleaning Up

**For containment :** Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for cleaning up:** Clear up spills immediately and dispose of waste safely.

### Reference To Other Sections

See Heading 8. Exposure controls and personal protection

## **SECTION 7: HANDLING AND STORAGE**

### Precautions For Safe Handling

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

### Conditions For Safe Storage, Including Any Incompatibilities

**Technical measures:** Comply with applicable regulations.

**Storage conditions:** Store in a well-ventilated place. Keep container closed when not in use.

**Storage area:** Store locked up.

**Specific End Use(s)** Laboratory reagent.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control Parameters

Ammonium chloride (12125-02-9)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>

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USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Québec	VECD (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

### Exposure Controls

**Appropriate engineering controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal protective equipment:** Insufficient ventilation: wear respiratory protection. Corrosion-proof clothing. Gloves. Protective goggles.



**Materials for protective clothing:** Chemically resistant materials and fabrics

**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information On Basic Physical And Chemical Properties

Physical state	: Liquid
Appearance	: Clear
Odor	: Not available
Odor threshold	: Not available
pH	: Not available
Relative evaporation rate (butyl acetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapor pressure	: Not available
Relative vapor density at 20 °C	: Not available
Relative density	: Not available
Specific gravity density	: Not available
Solubility	: Soluble.
Log Pow	: Not available
Log Kow	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available

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**Explosion data - sensitivity to mechanical impact** : Not available

**Explosion data - sensitivity to static discharge** : Not available

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Ammonium hydroxide reacts with many heavy metals and their salts forming explosive compounds. It attacks many metals forming flammable/explosive gas. The solution in water is a strong base, it reacts violently with acids.

**Chemical Stability** Stable at standard temperature and pressure.

**Possibility Of Hazardous Reactions** Hazardous polymerization will not occur.

**Conditions To Avoid** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials** Oxidizers. Halogens. Strong acids.

**Hazardous Decomposition Products** Thermal decomposition generates : Corrosive vapors.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information On Toxicological Effects - Product

**Acute toxicity** : Harmful if swallowed.

**Skin corrosion/irritation:** Causes severe skin burns.

**Serious eye damage/irritation:** Causes eye burns.

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** May cause respiratory irritation.

**Aspiration hazard:** Not classified

**Potential Adverse human health effects and symptoms:** Harmful if swallowed.

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** Corrosive. Causes burns.

**Symptoms/injuries after eye contact:** Corrosive. Causes burns.

**Symptoms/injuries after ingestion:** Harmful if swallowed.

#### Information On Toxicological Effects - Ingredient(s)

##### LD50 and LC50 Data

Ammonium chloride (12125-02-9)	
LD50 oral rat	1410 mg/kg
Ammonium hydroxide (1336-21-6)	
LD50 oral rat	350 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

Ammonium chloride (12125-02-9)	
LC50 fish 1	725 mg/l (Exposure time: 24 h - Species: Lepomis macrochirus)
EC50 Daphnia 1	202 mg/l (Exposure time: 24 h - Species: Daphnia magna)
LC50 fish 2	209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
Ammonium hydroxide (1336-21-6)	
LC50 fish 1	8.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.66 mg/l (Exposure time: 48 h - Species: water flea)
EC50 Daphnia 2	0.66 mg/l (Exposure time: 48 h - Species: Daphnia pulex)

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## Persistence And Degradability

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Persistence and degradability	Not established.

## Bioaccumulative Potential

Versenate Hardness Buffer Solution	
Bioaccumulative potential	Not established.

Mobility In Soil Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage disposal recommendations:** Do not dispose of waste into sewer.

**Waste disposal recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology - waste materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

In accordance with ICAO/IATA/DOT/TDG

UN Number

UN-No.(DOT): 2672

DOT NA no.: UN2672

UN Proper Shipping Name

DOT Proper Shipping Name

: Ammonia solutions  
relative density between 0.880 and 0.957 at 15 degrees C in water,  
with more than 10 percent but not more than 35 percent ammonia

UN technical shipping descriptor

: (with 10-35% Ammonia)

Department of Transportation (DOT) Hazard

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Classes

Hazard labels (DOT)

: 8



Packing group (DOT)

: III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F).  
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, and tf is the

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	temperature in degrees celsius of the liquid during filling.
<b>DOT Packaging Exceptions (49 CFR 173.xxx)</b>	: 154
<b>DOT Packaging Non Bulk (49 CFR 173.xxx)</b>	: 203
<b>DOT Packaging Bulk (49 CFR 173.xxx)</b>	: 241
<b>Additional information</b>	
<b>Emergency Response Guide (ERG) Number</b>	: 154
<b>Overland transport</b> Ammonia solutions	
<b>Transport by sea</b> Ammonia solutions	
<b>DOT Vessel Stowage Location</b>	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
<b>DOT Vessel Stowage Other</b>	: 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids, 85 - Under deck stowage must be in mechanically ventilated space
<b>Air transport</b>	
<b>DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)</b>	: 5 L
<b>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)</b>	: 60 L

## SECTION 15: REGULATORY INFORMATION

### US Federal regulations

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Ammonium chloride (12125-02-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Ammonium hydroxide (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State regulations

#### Ammonium chloride (12125-02-9)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Hawaii - Occupational Exposure Limits - STELs  
U.S. - Hawaii - Occupational Exposure Limits - TWAs  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Occupational Exposure Limits - STELs  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Michigan - Polluting Materials List  
U.S. - Minnesota - Hazardous Substance List

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U.S. - Minnesota - Permissible Exposure Limits - STELs  
 U.S. - Minnesota - Permissible Exposure Limits - TWAs  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
 U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
 U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
 U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
 U.S. - Oregon - Permissible Exposure Limits - TWAs  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
 U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
 U.S. - Tennessee - Occupational Exposure Limits - STELs  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Vermont - Permissible Exposure Limits - STELs  
 U.S. - Vermont - Permissible Exposure Limits - TWAs  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs

### Ammonium hydroxide (1336-21-6)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
 U.S. - Louisiana - Reportable Quantity List for Pollutants  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Massachusetts - Toxics Use Reduction Act  
 U.S. - Michigan - Polluting Materials List  
 U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)  
 U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term

### Canadian regulations

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WHMIS Classification

Class E - Corrosive Material



#### Water (7732-18-5)



Listed on the Canadian DSL (Domestic Substances List) inventory.



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WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
<b>Ammonium chloride (12125-02-9)</b>		
Listed on the Canadian DSL (Domestic Substances List) inventory.		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
<b>Ammonium hydroxide (1336-21-6)</b>		
Listed on the Canadian DSL (Domestic Substances List) inventory.		
Listed on the Canadian Ingredient Disclosure List		
WHMIS Classification	Class E - Corrosive Material	

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION

- Indication of changes** : Revision date 02/05/2013
- Data sources** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
- Data sources** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

- NFPA health hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA fire hazard** : 1 - Must be preheated before ignition can occur.
- NFPA reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### HMIS III Rating

- Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability** : 1 Slight Hazard
- Physical** : 0 Minimal Hazard

#### Party Responsible For The Preparation Of This Document:

OFI Testing Equipment  
Phone Number: 832-320-7300

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS