

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Product Identifiers

Product code	R-1035
Product name	Hardness Indicator Buffer Solution

### 1.2. Alternate product names

### 1.3. Relevant identified uses of the substance or mixture and used advised against

Identified Uses	Water hardness indicator
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### 1.4. Details of the supplier of the safety data sheet

Distributor	Navien, Inc.   <a href="http://www.navieninc.com">www.navieninc.com</a> 20 Goodyear, Irvine, CA USA 92618 Navien Technical Support Team: 1-800-519-8794 Email: <a href="mailto:CAtechsupport@navien.com">CAtechsupport@navien.com</a>   <a href="mailto:NJtechsupport@navien.com">NJtechsupport@navien.com</a>
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Manufacturer	WET International 316 Roma Jean Parkway, Streamwood, IL USA 60107 (630) 540-2113
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### 1.5. Emergency telephone number

Emergency phone#	Infotrac: (800) 535-5053
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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

### 2.2. GHS Label elements, including precautionary statements



Pictogram:

Signal Word: Warning

#### Hazard Statement(s)

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### Precautionary Statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance/Mixture

Chemical	CAS No.	Percentage	Classification	Other Limits
Calmagite	3147-14-6	0.06	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	
Sodium carbonate	497-19-8	0.1	Eye Irrit. 2A; H319	
Triethylamine	121-44-8	90	Flam. Liq. 2; Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; STOT SE 3;	

			Aquatic Acute 2; H225, H302, H311 + H331, H314, H318, H335, H401	
hydroxylamine hydrochloride	5470-11-1	0.08	Met. Corr. 1; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H290, H302 + H312, H315, H317, H319, H351, H373, H410	

#### 4. FIRST AID MEASURES

##### 4.1. Description of first aid measures

###### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

###### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

###### Skin Contact

Wash off with soap and plenty of water. Consult a physician.

###### Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### 4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

##### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

#### 5. FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

##### 5.2. Special hazards arising from the substance or mixture

no data available

##### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### 5.4. Further information

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No data available

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### **6.2. Environmental precautions**

Do not let product enter drains

### **6.3. Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

disposal.

### **6.4. Reference to other sections**

See section 8 and 13 for further information

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## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

See section 3.

### **8.2. Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved

under appropriate government standards such as NIOSH (US) or EN 166(EU)

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and

components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid, Blue
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

This product is stable and nonreactive under normal conditions of use, storage, transport.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

no data available

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

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No data available.

**Specific target organ toxicity – single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity – repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Additional information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

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**12. ECOLOGICAL INFORMATION**

**12.1. Ecotoxicity (Aquatic and Terrestrial)**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Other adverse effects**

No data available.

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**13. DISPOSAL CONSIDERATIONS**

**13.1. Disposal methods**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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**14. TRANSPORT INFORMATION**

**14.1. DOT (U.S. Department of Transportation)**

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A
Reportable Quantity (RQ)	N/A

Marine Pollutant	No
Poison Inhalation Hazard	No

#### 14.2. IMDG (International Maritime Dangerous Goods)

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A
Marine Pollutant	No

#### 14.3. IATA (International Air Transport Association)

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

### 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/substance specific legislation

CERCLA RQ: No

TSCA: All ingredients are listed on the TSCA inventory.

Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 311/312: No SARA Hazards

SARA 313 Chemicals: This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

State Right to Know: Calmagite/3147-14-6, Sodium carbonate/497-19-8, Triethylamine/, hydroxylamine hydrochloride/5470-11-1, /121-44-8

Other information: Not Dangerous Goods

Please consult relevant federal and local regulations for additional details.

### 16. OTHER INFORMATION

#### HMIS Rating

Health hazard	2
Flammability	0
Physical hazard	0



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**Personal protection****NFPA Rating**

Health hazard	2
Fire hazard	0
Reactivity hazard	0
Specific hazard	0

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

**Preparation Information**

WET International

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