SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrochloric Acid, 3.0 N
NCL Catalog Number: H-15
Product Description: Laboratory chemical
Supplier
NCL of Wisconsin, Inc.
P.O. Box 8
Birnamwood, WI 54414

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification
Signal Word: Danger

Hazard Statements
H314: Causes severe skin burns and eye damage.

Precautionary Statements
P260: Do not breathe mist/vapors/spray.
P264: Wash exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor.
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.
P405: Store locked up.
P501: Dispose of contents/container to comply with local, state and federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity: Not applicable
Common Name: Not applicable
Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>Approximate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>91</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>9</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES
Description of First Aid Measures

**General First Aid Measures**
Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.

**If Inhaled**
Remove person to fresh air and keep comfortable for breathing. Allow victim to rest. Immediately call a POISON CENTER or doctor.

**In Case of Skin Contact**
Remove all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.

**In Case of Eye Contact**
Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**If Swallowed**
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**Most Important Symptoms/Effects Acute and Delayed**

- **After Inhalation**: Possible inflammation of the respiratory tract.
- **After Skin Contact**: Causes skin irritation.
- **After Eye Contact**: Causes serious eye irritation.
- **After Ingestion**: Nausea and vomiting.

**Indication of Immediate Medical Attention and Special Treatment Needed**
Seek medical attention if exposed.

---

### SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media**

- **Unsuitable Extinguishing Media**: Do not use high pressure water stream.
- **Special Hazards Arising from the Chemical**: Thermal decomposition generates corrosive vapors
- **Special Protective Actions for Fire-Fighters**: Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

- **Personal Precautions**: Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Ventilate area.

- **Environmental Precautions**: Prevent entry to surface and ground waters.

- **Methods and Materials for Containment and Cleaning Up**: Clean up spill with inert absorbent material. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

---

### SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling**
Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

**Conditions for Safe Storage Including any Incompatibilities**
Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from metals, cyanides and strong bases.

---

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**: Not applicable

**Appropriate Engineering Controls**: Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures**: Avoid all unnecessary exposure.
Eye/Face Protection
Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

Skin Protection
Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection
Wear appropriate mask.

Other Information
Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Slightly acidic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper/Lower Flammability/Explosive Limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.04</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition generates toxic hydrogen chloride fumes.

Chemical Stability
Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions
Reacts violently with some bases and with the evolution of heat.

Conditions to Avoid
Extremely high or low temperatures. Heat and sunlight can contribute to instability.

Incompatible Materials
Metal oxides, hydroxides, amines, alkaline materials, cyanides, sulfides, sulfites, formaldehyde, metals, and strong bases.

Hazardous Decomposition Products
When heated to decomposition, can emit toxic gases, hydrogen chloride, carbon dioxide, and carbon monoxide. Thermal decomposition generates corrosive vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Hydrochloric Acid, 37% w/w (7647-01-0)</td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>700 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>5010 mg/kg</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>≥90000 mg/kg</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Causes severe skin burns.</td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Potential Adverse Human Health Effects and Symptoms: No data available
Symptoms/Injuries After Inhalation: Possible inflammation of the respiratory tract.
Symptoms/Injuries After Skin Contact: Caustic burns/corrosion of the skin.
Symptoms/Injuries After Eye Contact: Causes serious eye damage.
Symptoms/Injuries After Ingestion: Nausea and vomiting.
Chronic Symptoms: Discoloration of teeth.
Other Information: Not available

SECTION 12: ECOLOGICAL INFORMATION
Toxicity: Not applicable
Persistence and Degradability: Not applicable
Bioaccumulative Potential: Not applicable
Mobility in Soil: Not applicable
Other Adverse Effects: Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS
Methods of Disposal
Disposal Recommendations: Dispose of contents/containers in accordance with local, state and federal regulations.
Other Information: Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION
UN Number: 1760
UN Shipping Name: Corrosive liquids, N.O.S.
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable
Transport in Bulk: Not applicable
Other Precautions: Not applicable

SECTION 15: REGULATORY INFORMATION
**SECTION 16: OTHER INFORMATION**

**Revision Date:** 04/01/2015

**NFPA Hazards**

**Health Hazard**
1: May cause irritation; minimal residual injury.

**Fire Hazard**
0: Materials that will not burn.

**Reactivity/Instability**
0: Normally stable, even under fire exposure conditions, and is not reactive with water.

**HMIS III Rating**

**Health**
1: Irritation or minor reversible injury possible.

**Flammability**
0: Materials that will not burn.

**Physical Hazard**
0: Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

**Personal Protection**
B

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

**END OF SAFETY DATA SHEET**