Spill Prevention Response Plan

Roads and Grounds Brine Tank (T-07)
Tank Registration Number 031-00000133

Site Activities

Bulk salt brine is transported to this site from the West Virginia University, Roads and Grounds Facility. Salt brine is loaded into this aboveground storage tank for use during the winter as a pre-treatment or deicing process on sidewalks, steps, parking lots or steep slopes on roads. As salt brine is needed, it is removed from the tank by a gravity feed valve on the lower side of the tank. The salt brine is placed into small portable tanks in the back of pickup trucks or Utility Terrain Vehicles.

Applicable Hazards and Process Information

The Roads and Grounds Brine Tank stores a 30% by weight mixture of salt brine. This is a solution of water and salt. The following is the information regarding salt (sodium chloride) and water.

- Sodium Chloride (salt) CAS # 7647-14-5
- Water CAS # 7732-18-5

The Roads and Grounds tank stores a maximum volume of 2,500 gallons of brine. There are no wastes stored in the aboveground storage tank at this site.

(Material) Safety Data Sheets

(Material) Safety Data Sheets for each material are attached to this plan. Attachment A is the (M)SDS for Salt. Attachment B is the (M)SDS for Water. Attachment C is the (M)SDS for salt Brine Solution. According to the (M)SDS provided for salt the health rating is one (1). According to the (M)SDS for water, the health rating is (0). According to the (M)SDS for Salt Brine Solution, the health rating is (1).
Site Map of Aboveground Storage Tank Facility

Attachment D indicates all pertinent information regarding the aboveground storage tank location.

Preventative Maintenance Program

This tank does not have a leak detection system. However, the employees that work at the tank conduct a visual inspection prior to adding or removing salt brine to or from the tank. All employees are required to visually inspect the secondary containment area for any liquids. Also, the operator must inspect the valves, gaskets and flange for deterioration and/or leaking before removing brine from the tank.

Tank Inspection

The tank will be inspected on a quarterly basis utilizing the inspection checklist found in Attachment E. Further, all tanks will be inspected, using the checklist found in Attachment F, on an annual basis with respect to the minimum standards set forth in Appendix B of 47 CSR 62.

AST System Stress Points

One stress point for this tank can be found at the pipe, flange and gasket leaving the tank at the lower side. One additional stress point for this tank is the bottom of the tank where it rests. The final stress point for this tank is the center section of the tank when the tank is full. This section of the tank is a weak point when the tank is at full capacity.

Employee Training Program

Tank operators are trained with respect to proper operation of the tank, as well as, the equipment associated with the filling and dispensing of brine from the tank. Also, operators are trained with respect to visual cues for the early detection of leaks around valves, flanges, gaskets or hoses from the tank. Also, the operator is instructed when and who to contact if there are any concerns regarding the integrity of the tank, or its secondary containment system.

Corrosion Protection and Monitoring

This tank is a plastic polymer tank and does not require corrosion protection.

Security System

Tank valves are placed in the closed position after dispensing operations are complete. The tank valve handle is removed and stowed in a secure location to prevent unauthorized discharge or dispensing when the tank is not in use.
Spill Prevention Measures

During the filling process tank volumes can be visually gauged since the tanks are opaque and the volume of liquid inside the tank can be seen. Overfill prevention is prevented by visual inspection during the filling process. Overfill prevention during the dispensing process is also prevented by visual inspection. All tanks utilized on pickup trucks or Utility Terrain Vehicles are opaque plastic polymer construction, and are open hatch top loaded. This allows for the visual inspection during the dispensing of brine into the smaller day use tanks. Finally, all hoses are placed into a 55 gallon drum to prevent any spills into the environment. All liquid that is collected in the 55 gallon drum is pumped back into the brine tank.

Emergency Response Information

John Hando, Emergency Response Coordinator, Environmental Health and Safety
Brian Lemme, Environmental Health and Safety Specialist, Stormwater Specialist

Chain of Command

Byron Smith, Director, Grounds and Labor
Richard Hott, Operations Manager, Landscape Construction
Robert Frame, Manager II, Landscape Maintenance
Robert Sine, Operations Manager, Grounds Maintenance
Brian Lemme, Environmental Health and Safety Specialist, Environmental Health and Safety
John Hando, Emergency Response Coordinator, Environmental Health and Safety

Attachment G is a list of all employees who handle or potentially handle or transfer salt brine for winter deicing operations.
Contact Information

Brian Lemme
975 Rawley Lane
Morgantown, WV 26506
Office (304) 293-8742
Cell (304) 692-4005

John Hando
975 Rawley Lane
Morgantown, WV 26506
Office (304) 293-5799
Cell (304) 680-2165

Response Contractors

Miller Environmental
7 Pixler Hill Road
Morgantown, WV 26508
Office (304) 292-8655
Cell (304) 692-5300

Ryan Environmental, LLC
5793 West Veterans Memorial Highway,
Suite 101
Bridgeport, WV 26330
Office (304) 842-5578

Response Actions

Stop the leak if possible.

If leak cannot be stopped, all liquid remaining in tank will be transferred into temporary holding containers (drums or portable tanks). Any spilled free product will be immediately collected and placed into 55 gallon drums for proper disposal.

The extent of contamination will be determined by sampling. Sample results will be provided to the West Virginia Department of Environmental Protection for further guidance. All sample results will be compared to the de minimis levels established in Table 60-3B of the West Virginia Department of Environmental Protection.
## Contacts in Event of Release

<table>
<thead>
<tr>
<th>Contact</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Chester, Water Department</td>
<td>(304) 387-0114</td>
</tr>
<tr>
<td>Hancock County Emergency Management</td>
<td>(304) 564-4040</td>
</tr>
<tr>
<td>City of Chester, Police Department</td>
<td>(304) 387-2820</td>
</tr>
<tr>
<td>Chester Volunteer Fire Department</td>
<td>(304) 387-1690</td>
</tr>
<tr>
<td>Hancock County, Health Department</td>
<td>(304) 564-3343</td>
</tr>
<tr>
<td>Morgantown Utility Board</td>
<td>(304) 292-8443</td>
</tr>
<tr>
<td>City of Morgantown, Fire Department</td>
<td>(304) 284-7481</td>
</tr>
<tr>
<td>City of Morgantown, Police Department</td>
<td>(304) 284-7522</td>
</tr>
<tr>
<td>Monongalia County Emergency Management</td>
<td>(304) 598-0301</td>
</tr>
<tr>
<td>Monongalia County Dispatch</td>
<td>(304) 599-6382</td>
</tr>
<tr>
<td>Monongalia County Health Department</td>
<td>(304) 598-5100</td>
</tr>
<tr>
<td>East Dunkard Water Authority, Dilliner, PA</td>
<td>(724) 943-3713</td>
</tr>
<tr>
<td>Dunkard Valley Joint Municipal Authority</td>
<td>(724) 943-3000</td>
</tr>
<tr>
<td>Masontown, PA Water Authority</td>
<td>(724) 583-7731</td>
</tr>
<tr>
<td>WVDEP Spill Line</td>
<td>800-642-3074</td>
</tr>
<tr>
<td>WVDNR-Wildlife</td>
<td>(304) 825-6787</td>
</tr>
</tbody>
</table>
ATTACHMENT A
1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Salt</th>
</tr>
</thead>
</table>

| Recommended restrictions    | None known.                |

Manufacturer
Compass Minerals International
9900 West 108th Street, Suite 100
Overland Park, KS 66210 US
Phone 913-344-9200
Emergency US CHEMTREC 1-800-424-9300
Emergency Canada CANUTEC 1-800-996-6666

2. Hazards Identification

| Physical hazards            | Not classified.            |
| Health hazards              | Not classified.            |
| Environmental hazards       | Not classified.            |
| OSHA defined hazards        | Not classified.            |

Label elements

| Hazard symbol               | None.                     |
| Signal word                 | None.                     |
| Hazard statement            | The product and/or mixture does not meet the criteria for classification. |
| Precautionary statement     |                           |
| Prevention                  | Observe good industrial hygiene practices. |
| Response                    | Wash hands after handling. |
| Storage                     | Store away from incompatible materials, i.e., strong oxidizing agents (see Section 10) |
| Disposal                    | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | None known. |

Supplemental information
Not applicable.
3. Composition/Information on Ingredients

Salt and/or Salt Mixtures
Composition comments
The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

4. First Aid Measures

Inhalation
Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact
Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. If ingestion of a large amount does occur, seek medical attention.

Most important symptoms/effects, acute and delayed
Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media
Salt and salt mixtures are non-combustible.

Unsuitable extinguishing media
Not applicable.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Use appropriate firefighting PPE as a general precaution.

Fire-fighting equipment/instructions
Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.

Specific methods
In the event of a fire, equipment and methods that are consistent with the combusting material should be utilized.

General fire hazards
No unusual fire or explosion hazards noted.

Hazardous combustion products

Explosion data
Sensitivity to mechanical impact
Not available.

Sensitivity to static discharge
Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Restrict area to facilitate clean up.

Methods and materials for containment and cleaning up
Stop the flow of material, if this is without risk. Prevent direct entry into waterways and sewers. Following product recovery, flush area with water if necessary. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid direct release into waterways and sewers.

7. Handling and Storage

Precautions for safe handling
Use care in handling/storage. Avoid breathing dust.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Store away from incompatible materials, i.e., strong oxidizing agents (see Section 10).

8. Exposure Controls/Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m., Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m., Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection
Safety glasses if eye contact is possible.

Skin protection
Hand protection
If there is constant skin contact, rubber gloves are recommended.

Other
Wear suitable protective clothing.

Respiratory protection
No personal respiratory protective equipment normally required.

Thermal hazards
Not applicable.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

9. Physical and Chemical Properties

Appearance
Crystalline.

Physical state
Solid.

Form
Solid.

Color
Varies

Odor
Odorless

Odor threshold
Not applicable

pH
6 - 8 (Neutral)

Melting point/freezing point
Not applicable

Initial boiling point and boiling range
Not applicable

Pour point
Not applicable

Specific gravity
Not applicable

Partition coefficient (n-octanol/water)
Not applicable

Flash point
Not applicable

Evaporation rate
Not applicable

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not applicable

Flammability limit - upper (%)
Not applicable

Explosive limit - lower (%)
Not applicable

Explosive limit - upper (%)
Not applicable

Vapor pressure
Not applicable

Vapor density
Not applicable

Relative density
Not applicable

Solubility(ies)
Not available.

Auto-ignition temperature
Not applicable

Decomposition temperature
Not applicable

Viscosity
Not applicable

10. Stability and Reactivity

Reactivity
None known.
11. Toxicological information

Information on likely routes of exposure

Ingestion
- Expected to be a low ingestion hazard.

Inhalation
- No adverse effects due to inhalation are expected.

Skin contact
- No adverse effects due to skin contact are expected.

Eye contact
- Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity
- Not classified.

Skin corrosion/irritation
- Prolonged skin contact may cause temporary irritation.

Exposure minutes
- Not available.

Erythema value
- Not available.

Oedema value
- Not available.

Serious eye damage/eye irritation
- Direct contact with eyes may cause temporary irritation.

Corneal opacity value
- Not available.

Iris lesion value
- Not available.

Conjunctival reddening value
- Not available.

Conjunctival oedema value
- Not available.

Recover days
- Not available.

Respiratory or skin sensitization

Respiratory sensitization
- Not available.

Skin sensitization
- This product is not expected to cause skin sensitization.

Germ cell mutagenicity
- No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity
- No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
- This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
- This product is not expected to cause reproductive or developmental effects.

Teratogenicity
- Not classified.

Specific target organ toxicity - single exposure
- Not classified.

Specific target organ toxicity - repeated exposure
- Not classified.

Aspiration hazard
- Not classified.

Chronic effects
- Not classified.

Further information
- This product has no known adverse effect on human health.

Name of Toxicologically Synergistic Products
- Not available.

12. Ecological Information

Toxicity
- The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability
- No data is available on the degradability of this product.

Bioaccumulative potential
- No data available.

Mobility in soil
- No data available.
### 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Disposal Instructions</th>
<th>Collect and reclaim or dispose in sealed containers in accordance with applicable regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local disposal regulations</td>
<td>Dispose in accordance with all applicable regulations.</td>
</tr>
<tr>
<td>Hazardous waste code</td>
<td>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.</td>
</tr>
</tbody>
</table>

### 14. Transport Information

| U.S. Department of Transportation (DOT) | Not regulated as dangerous goods. |
| Transportation of Dangerous Goods (TDG - Canada) | Not regulated as dangerous goods. |

### 15. Regulatory Information

| Canadian federal regulations | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |
| WHMIS status | Not Controlled |
| | CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. |
| | Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. |
| | Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. |
| | Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No | Delayed Hazard - No |
| | Fire Hazard - No | Pressure Hazard - No |
| | Reactivity Hazard - No |
| SARA 302 Extremely hazardous substance | No |
| SARA 311/312 Hazardous chemical | No |
| SARA 313 (TRI reporting) | Not regulated. |
| Other federal regulations | Safe Drinking Water Act (SDWA) Not regulated. |
| Food and Drug Administration (FDA) | Not regulated. |
| | US, Massachusetts RTK - Substance List Not regulated. |
### Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

### 16. Other Information

#### LEGEND

```
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |
```

#### Disclaimer

The information in this sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

#### Issue date

29-August-2014

#### Effective date

01-August-2014

#### Expiry date

01-August-2017

#### Prepared by

Dell Tech Laboratories, Ltd.  Phone: (519) 858-5021

#### Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.
ATTACHMENT B
1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers
Product name : Water
Product Number : 320072
Brand : Sigma-Aldrich
CAS-No. : 7732-18-5

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number
Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula : H₂O H₂O
Molecular weight : 18.02 g/mol
CAS-No. : 7732-18-5
EC-No. : 231-791-2

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures
If inhaled
If not breathing give artificial respiration

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
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
No data available

5.4 Further information
The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No special storage conditions required.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

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.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatrix® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Respiratory protection**
No special protective equipment required.

**Control of environmental exposure**
Prevent product from entering drains.

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- **a)** Appearance: Form: liquid
  Colour: colourless

- **b)** Odour: No data available
- **c)** Odour Threshold: No data available
- **d)** pH: 6.0 - 8.0 at 25 °C (77 °F)
- **e)** Melting point/freezing point: 0.0 °C (32.0 °F)
- **f)** Initial boiling point and boiling range: 100 °C (212 °F) - lit.
- **g)** Flash point: Not applicable
- **h)** Evaporation rate: No data available
- **i)** Flammability (solid, gas): No data available
- **j)** Upper/lower flammability or explosive limits: No data available
- **k)** Vapour pressure: No data available
- **l)** Vapour density: No data available
- **m)** Relative density: 1.000 g/cm3 at 3.98 °C (39.16 °F)
- **n)** Water solubility: completely miscible
- **o)** Partition coefficient: n-octanol/water: No data available
- **p)** Auto-ignition temperature: No data available
- **q)** Decomposition temperature: No data available
- **r)** Viscosity: No data available
- **s)** Explosive properties: No data available
- **t)** Oxidizing properties: No data available

#### 9.2 Other safety information

No data available
10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

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
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
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
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available
12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
Not applicable

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Taking into account local regulations the product may be disposed of as waste water after neutralisation.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

New Jersey Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

California Prop. 65 Components
**16. OTHER INFORMATION**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HMIS Rating</strong></td>
<td></td>
</tr>
<tr>
<td>Health hazard:</td>
<td>0</td>
</tr>
<tr>
<td>Chronic Health Hazard:</td>
<td>0</td>
</tr>
<tr>
<td>Flammability:</td>
<td>0</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td><strong>NFPA Rating</strong></td>
<td></td>
</tr>
<tr>
<td>Health hazard:</td>
<td>0</td>
</tr>
<tr>
<td>Fire Hazard:</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity Hazard:</td>
<td>0</td>
</tr>
</tbody>
</table>

**Further information**
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**Preparation Information**
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3  Revision Date: 10/01/2014  Print Date: 11/10/2014
ATTACHMENT C
Material Name: Brine Solution

Section 1 - Product and Company Identification

| Synonyms: | Salt water, Brine recycle stream, Sodium chloride solution |
| Chemical Name: | Brine solution |
| Chemical Family: | Mixture |
| Material Use: | Operation of underground storage caverns and for salt manufacturing |
| Chemical Formula: | Na⁺ (aq) Cl⁻ (aq); sodium chloride in solution |

NOVA Chemicals
P.O. Box 2518, Station M
Calgary, Alberta, Canada T2P 5C6

EMERGENCY Telephone Numbers:
North America (Canada and US):
1-800-561-6682, 1-403-314-8767 (NOVA Chemicals) (24 hours)
1-800-424-9300 (CHEMTREC-USA) (24 hours)
1-613-996-6666 (Canutec-Canada) (24 hours)

Product Information: 1-412-490-4063
MSDS Information Email: msdsemail@novachem.com

Section 2 - Hazards Identification

HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0
  Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe *
  * = Chronic hazard

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0
  Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Emergency Overview
CAUTION! Product is a clear to cloudy white liquid with no odour. This product may be irritating to the eyes, skin, and respiratory system.

Potential Health Effects: Eye
This product may cause eye irritation. Symptoms may include itching, reddening, excess tearing and swelling.

Potential Health Effects: Skin
This product may cause drying, irritation and possible dermatitis.

Potential Health Effects: Ingestion
Ingestion of very large quantities may cause nausea, vomiting, dehydration, diarrhoea, oedema, and possible death. Prolonged over consumption may result in high blood pressure and heart problems.

Potential Health Effects: Inhalation
This product may cause irritation to the respiratory system.

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Component</th>
<th>Percent by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>74-82</td>
</tr>
<tr>
<td>7647-14-5</td>
<td>Sodium chloride</td>
<td>18-26</td>
</tr>
</tbody>
</table>

Additional Information
This product is hazardous under 29 CFR 1910.1200 (Hazard Communication).
This material is a controlled product under Canadian WHMIS regulations.
This material is not regulated as a hazardous material / dangerous goods for transportation.

See Section 8 for applicable exposure limits. See Section 11 for applicable toxicity data.

Section 4 - First Aid Measures

First Aid: Eyes
Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

First Aid: Skin
Remove contaminated clothing and shoes. Wash immediately with soap and water. Seek medical attention if symptoms develop or persist.
Material Name: Brine Solution

First Aid: Inhalation
Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist.

First Aid: Ingestion
DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

First Aid: Notes to Physician
Treat symptomatically. Treatment for overexposure should be directed at controlling the symptoms and clinical condition of the patient. Unless symptoms reappear, no further treatment is required. For more detailed medical emergency support information call 1-800-561-6682 or 1-403-314-8767 (24 hours, NOVA Chemicals Emergency Response).

Section 5 - Fire Fighting Measures
See Section 9: Physical Properties for flammability limits, flash point and auto-ignition information.

General Fire Hazards
Not a fire hazard. Does not burn.

Explosion Hazards
Not an explosion hazard.

Hazardous Combustion Products
None. Does not burn.

Extinguishing Media
Does not burn. Use extinguishing media suitable to surrounding fire conditions; e.g. dry chemical, foam, carbon dioxide, water fog or water spray.

Fire Fighting Equipment/Instructions
Firefighters should wear personal protective equipment suitable for the fire conditions and the materials burning.

Section 6 - Accidental Release Measures
Evacuation Procedures
Isolate area. Keep unnecessary personnel away.

Small Spills
Stop or reduce discharge if safe to do so. Prevent entry into water intakes and waterways. Remove liquid material with approved pumps or vacuum equipment.

Large Spills
Stop or reduce leak. Isolate, contain, and attempt to recover. Prevent entry into water intakes and waterways. Remove liquid material with approved pumps or vacuum equipment. Spill area may be washed down with water, with wash waters collected for testing and proper disposal.

Special Procedures
Contact local police/emergency services and appropriate emergency telephone numbers provided in Section 1. Ensure that statutory and regulatory reporting requirements in the applicable jurisdiction are met. Wear appropriate protective equipment and clothing during cleanup. Individuals without appropriate protective equipment should be excluded from area of spill until cleanup has been completed.

See Section 8 for recommended Personal Protective Equipment and see Section 13 for waste disposal considerations.

Section 7 - Handling and Storage
Handling Procedures
Material is slowly corrosive to metal. Handle in properly designed and approved equipment systems. Periodically inspect pipelines and other equipment for integrity and corrosion. Do not ingest or inhale. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatible materials. After handling, always wash hands thoroughly with soap and water.

Storage Procedures
Storage area should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel. Adequate security must be provided so that unauthorized personnel do not have access to the product. Storage ponds and tank areas should be periodically inspected and kept separate from fresh water supply or outlets.
Material Safety Data Sheet

Material Name: Brine Solution

See Section 8: Exposure Controls/Personal Protection for appropriate Personal Protective Equipment. See Section 10 for information on Incompatibilities.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines
A: General Product Information
   Keep formation of airborne dusts or mists to a minimum. Ensure that eyewash stations and safety showers are in close proximity to the work locations.

B: Component Exposure Limits
   ACGIH, OSHA, NIOSH, EPA, Alberta and Ontario have not developed exposure limits for any of this product's components. Other exposure limits may apply, check with proper authorities.

ENGINEERING CONTROLS
   Provide adequate ventilation to maintain worker exposure below levels that are irritating to the eyes or skin. Administrative (procedure) controls and use of personal protective equipment may also be required.

PERSONAL PROTECTIVE EQUIPMENT
   Personal Protective Equipment: Eyes/Face
      Chemical goggles are recommended. If splashing is possible use chemical goggles and a full-face shield. Carefully rinse off contaminated goggles before removing.

   Personal Protective Equipment: Skin/Hands/Feet
      Use chemically resistant gloves when handling product. Wear chemical-resistant safety footwear with good traction to prevent slipping. Work clothing that sufficiently prevents skin contact should be worn, such as coveralls and/or long sleeves and pants. If splashing or contact with liquid material is possible, consider the need for an impervious overcoat.

   Personal Protective Equipment: Respiratory
      If engineering controls and ventilation are not sufficient to prevent buildup of aerosols or vapours, appropriate NIOSH approved respiratory protection should be used.

Personal Protective Equipment: General
   Personal protective equipment (PPE) should not be considered a long-term solution to exposure control. Employer programs to properly select, fit, maintain, and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation, and/or applicable regulations to determine hazard potential and ensure adequate protection.

Section 9 - Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Physical State and Appearance:</th>
<th>Clear/Cloudy Liquid</th>
<th>Odour:</th>
<th>Odourless</th>
<th>Colour:</th>
<th>Clear to white</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour Pressure:</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td>Vapour Density at 0°C (Air=1):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>&gt;100°C (&gt;212°F)</td>
<td></td>
<td></td>
<td>Freezing Point:</td>
<td>-10°C (14°F)</td>
</tr>
<tr>
<td>Solubility (H2O):</td>
<td>Miscible (water-based solution)</td>
<td></td>
<td></td>
<td>Specific Gravity (Water=1):</td>
<td>1.2 at 15°C (60°F)</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td>Flash Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point Method:</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td>Upper Flammable Limit (UFL):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammable Limit (LFL):</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td>Flammability Classification:</td>
<td>Non-flammable</td>
</tr>
</tbody>
</table>

Section 10 - Stability & Reactivity Information

Chemical Stability
   This product is a stable material.

Chemical Stability: Conditions to Avoid
   None identified.

Incompatibility
   In presence of air, liquid contact or mists will slowly corrode most metals.

Possibility of Hazardous Reactions or Hazardous Polymerization
   Hazardous polymerization will not occur.

Corrosivity
   Corrosive to most metals upon prolonged contact.
Material Safety Data Sheet

Material Name: Brine Solution

Hazardous Decomposition
None identified. Does not burn.

Section 11 - Toxicological Information

A: Acute Toxicity - General Product Information
This product has not been tested.

B: Acute Toxicity - LD50/LC50
Water (7732-18-5)
Oral LD50 Rat: >90 mL/kg
Sodium chloride (7647-14-5)
Inhalation LC50 Rat: >42 g/m3/1H; Oral LD50 Rat: 3 g/kg; Dermal LD50 Rabbit: >10 g/kg

C: Chronic Toxicity - General Product Information
This product has not been tested.

D: Chronic Toxicity - Carcinogenic Effects
None of this product's components are listed by ACGIH, EPA, IARC, OSHA, NIOSH, or NTP as a carcinogen.

Section 12 - Ecological Information

Ecotoxicity
A: General Product Information
This product has not been tested. A concentrated brine solution (~26% sodium chloride) will dehydrate animal and vegetative species. Sodium chloride is practically non-toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic/Terrestrial Toxicity
Sodium chloride (7647-14-5)
Test and Species
96 Hr LC50 Lepomis macrochirus
96 Hr LC50 Lepomis macrochirus
96 Hr LC50 Pimephales promelas
96 Hr LC50 Pimephales promelas
96 Hr LC50 Pimephales promelas
96 Hr LC50 Oncorhynchus mykiss
48 Hr EC50 Daphnia magna
48 Hr EC50 Daphnia magna
Results and Conditions
5560-6080 mg/L [flow-through]
12,946 mg/L [static]
6020-7070 mg/L [static]
7050 mg/L [semi-static]
6420-6700 mg/L [static]
4747-7824 mg/L [flow-through]
1000 mg/L
340.7 - 469.2 mg/L [static]

Environmental Fate/Mobility
This product has not been tested. Brine does not partition to air. When spilled into a body of water, the brine will disperse in and mix with the water. A large brine spill into a body of water could result in stratification with the water floating on top of the brine. Eventually the two will mix. When spilled onto soil, brine will behave similar to spilled water. Sodium chloride may leach from soil into groundwater.

Persistence/Degradability
This product has not been tested. Brine (sodium chloride) is not biodegradable.

Bioaccumulation/Accumulation
This product has not been tested.

Section 13 - Disposal Considerations

U.S./Canadian Waste Information
A: General Product Information
This product is not expected to be a hazardous waste according to US regulations. This product may meet the definition of a hazardous waste according to Canadian regulations. The use, mixing or processing of this product may alter its properties or hazards. Contact federal, provincial/state and local authorities in order to generate or ship a waste material associated with this product to ensure materials are handled appropriately and meet all criteria for disposal of hazardous waste.

See Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional information that may be applicable for safe handling and the protection of employees.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.
Material Safety Data Sheet

Material Name: Brine Solution

Section 14 - Transportation Information

US DOT Information
Shipping Name: NOT REGULATED as a Hazardous Material for Transportation.

Canadian TDG Information
Shipping Name: NOT REGULATED as a Dangerous Good for Transportation.

International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO) Information
Shipping Name: NOT REGULATED as a Dangerous Good for Transportation.

International Maritime Dangerous Goods (IMDG) Code
Shipping Name: NOT REGULATED as a Dangerous Good for Transportation.

Section 15 - Regulatory Information

A: International Regulations
Component Analysis - International Inventory Status

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>US - TSCA</th>
<th>EU - EINECS</th>
<th>CANADA - DSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

B: USA Federal & State Regulations
Ongoing occupational hygiene, medical surveillance programs, site emission or spill reporting may be required by federal or state regulations. Check for applicable regulations.

USA OSHA Hazard Communication Class
This product is hazardous under 29 CFR 1910.1200 (Hazard Communication). HCS Classes:
HCS CLASS: Irritating substance.

USA Right-to-Know - Federal
None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

USA Right-to-Know - State
None of this product's components are listed on the state lists from NJ or PA. Some components (including those present only in trace quantities, and therefore not listed in this document) may be included on the Right-To-Know lists of other U.S. states. The reader is therefore cautioned to contact his or her NOVA Chemicals' representative or NOVA Chemicals' Product Integrity group for further U.S. State Right-To-Know information.

C: Canadian Regulations - Federal and Provincial
Canadian Environmental Protection Act (CEPA): This product is a mixture of naturally-occurring substances. All components are on the Domestic Substances List (DSL), and are acceptable for use under the provisions of CEPA.

Ingredient Disclosure List (IDL)
No components are listed under the Canadian Hazardous Products Act - Ingredient Disclosure List (IDL).

WHMIS Classification
Workplace Hazardous Materials Information System (WHMIS): This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.
WHMIS CLASS D2B: Toxic (Skin/eye irritant)

Other Regulations
Ongoing occupational hygiene, medical surveillance programs, site emission or spill reporting may be required by federal or provincial regulations. Check for applicable regulations.

Section 16 - Other Information

Label Information
CAUTION! Product is a clear to cloudy white liquid with no odour. This product may be irritating to the eyes, skin, and respiratory system.
FIRST AID:
SKIN: Remove contaminated clothing and shoes. Wash immediately with soap and water. Seek medical attention if symptoms develop or persist.
EYES: Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical if symptoms develop or persist.
Material Safety Data Sheet

Material Name: Brine Solution

INHALATION: Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist.

INGESTION: DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

IN CASE OF LARGE SPILL: Stop or reduce leak. Isolate, contain, and attempt to recover. Prevent entry into water intakes and waterways. Remove liquid material with approved pumps or vacuum equipment. Spill area may be washed down with water, with wash waters collected for testing and proper disposal.

References
Available on request

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Transport of Dangerous Goods by Road; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; BOD = Biochemical Oxygen Demand; CAS = Chemical Abstracts Service; CEPA = Canadian Environmental Protection Act; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPO = Controlled Products Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EC50 = Effective Concentration 50%; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; FDA = Food and Drug Administration; GHS = Globally Harmonized System for the Classification and Labelling of Chemicals; HCS = Hazard Communication Standard; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life or Health; IMDG = International Maritime Dangerous Goods; IMO = International Maritime Organization; ISHL = Industrial Safety and Health Law; Kow = Octanol/water partition coefficient; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; LEL = Lower Explosive Limit; LFL = Lower Flammable Limit; LLV = Level Limit Ceiling Limit (Sweden dust); MAK = Maximum Concentration Value in the Workplace; MITI = Ministry of International Trade and Industry; MSDS = Material Safety Data Sheet; NAB = Threshold Values (Indonesia); NCEC = National Chemical Emergency Centre; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OEL = Occupational Exposure Limit; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; PNCC = Particulates Not Otherwise Classified; PPE = Personal Protective Equipment; PRTR = Designated Chemical Substance Law (Japan); PSD = Short Term Exposure Limit (Indonesia); RCRA = Resource Conservation and Recovery Act; REACH = Registration, Evaluation, Authorisation and Restriction of Chemical Substances; REL = Recommended Exposure Limit; RID = Transport of Dangerous Goods by Rail; SARA = Superfund Amendments and Reauthorization Act; SCBA = Self-Contained Breathing Apparatus; SDS = Safety Data Sheet; SEPA = State Environmental Protection Administration; STEL = Short Term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; UEL = Upper Explosive Limit; UFL = Upper Flammable Limit; VLA-ED = Valor limite Ambiental de Exposicion Diaria (Environmental Exposure Daily Limit Value); VME = valeur limite d'exposition (Occupational Exposure Limits); WHMIS = Workplace Hazardous Materials Information Systems

MSDS Prepared By: NOVA Chemicals
MSDS Information Phone Number: 1-412-490-4063

Other Information

Notice to Reader

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This is the end of MSDS # NOVA-0087.
ATTACHMENT D
# ATTACHMENT E

## TANK IN-SERVICE INSPECTIONS CHECKLIST

<table>
<thead>
<tr>
<th>Foundation and Supporting Structure</th>
<th>Satisfactory</th>
<th>Unsatisfactory</th>
<th>Non Applicable</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check for settlement around perimeter of tank.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check for settlement of structure supporting tank.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check for settlement of tank into the base.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Stormwater and Housekeeping
- Inspect site for drainage away from the tank and associated stormwater system.
- Inspect the area for build up of trash, vegetation, or other debris.

### Shell and Supporting Appurtenances
- Visually inspect for paint failures, pitting, corrosion, dents, punctures, cracks or cuts.
- Check bracing and supports for lines and equipment.
- Inspect visible metallic parts for corrosion and wear.
- Inspect condition and functioning of hatch cover.
- Inspect scaffold support for corrosion, wear, and structural soundness.

### Piping and Valves
- Inspect manifold piping, hoses, and valves for leaks.
- Inspect flanges and around bolting for leaks.
- Inspect connections for leaks and for proper valve operation.
- Locate and document any leaks by sketch or photo.

### Overfill devices
- Check freedom of movement of marker and alarm system.
<table>
<thead>
<tr>
<th>Item to Be inspected</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does the AST meet current design standards?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there settling around the tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does runoff go away from tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does foundation of tank appear to be adequate for tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is AST compatible with material stored in tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there any cracks in the tank shell?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there any worn areas on the tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there any damage or defects to the tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the connections tight and aligned?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there any discoloration to the tank shell?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there any stains around the tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there signs of a recent release around the tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does tank have galvanic protection?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the tank have some other corrosion protection?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the external shell have pits, corrosion or chips in paint or coating?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does tank have a release detection system?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does tank have written release prevention procedures?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the tank a double walled tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the tank have secondary containment?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can secondary containment hold 110% of the largest single tank?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there sufficient freeboard for precipitation events?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the secondary containment compatible with the tank contents?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there cracks in the secondary containment?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there low spots in the secondary containment?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there vegetation growing in the secondary containment?</td>
<td></td>
<td></td>
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<td>Is there debris or trash in the secondary containment?</td>
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<td>Does the tank have a leak detection system?</td>
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<tr>
<td>Are leak detection files available and up to date?</td>
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<tr>
<td>Does tank have corrosion Protection?</td>
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<td>Are corrosion protection document available and up to date?</td>
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<tr>
<td>Are Operation and Maintenance records available and up to date?</td>
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ATTACHMENT G

Chain of command for employees that handle or potentially handle transfer of salt brine for winter deicing operations.

**Employees performing transfer operations at facility tank**

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<tr>
<th></th>
<th>Employee Name</th>
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<td>1</td>
<td>Al Harper</td>
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<td>25</td>
<td>John Erdy</td>
<td>51</td>
<td>William Shaffer</td>
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</table>

**Supervisors for Employees**

- Robert Frame 304-293-0428
- Richard Hott 304-293-2885
- Robert Sine 304-293-8116

**Director of Facilities Management**

Byron Smith 304-293-6022