Spill Prevention Response Plan

Water Tower Tank (T-05)
Tank Registration Number 031-00000136

Site Activities
Domestic water is hard-piped into an 80,000 gallon aboveground storage tank. The water in the tank is utilized as a “surge tank” for fire suppression systems and drinking water. The water in the tank is gravity fed into the building fire suppression system and potable water system.

Applicable Hazards and Process Information
The Water Tower Tank stores domestic water for use in the building fire suppression system and potable water system. There are no additional additives in the water.
Water CAS # 7732-18-5
The Water Tower Tank stores a maximum volume of 80,000 gallons of domestic water. There are no wastes stored in the aboveground storage tank at this site.

(Material) Safety Data Sheets
(Material) Safety Data Sheets for the water stored in this tank is attached to this plan. Attachment A is the (M)SDS for Water. According to the (M)SDS for water, the health rating is (0).

Site Map of Aboveground Storage Tank Facility
Attachment B indicates all pertinent information regarding the aboveground storage tank location.
Preventative Maintenance Program

This tank does not have a leak detection system. Plumbing shop employees conduct a visual inspections. All operators must inspect the valves, gaskets and flange for deterioration and/or leaking before removing adding water to or removing water from the tank.

Tank Inspection

The tank will be inspected on a quarterly basis utilizing the inspection checklist found in Attachment C. Further, all tanks will be inspected, using the checklist found in Attachment D, 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 on steel supports. One additional stress point for this tank are the legs supporting the tank.

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 water 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 single walled steel tank. The tank does not have direct contact with the ground. This tank is supported by steel legs.

Security System

The access points leading to the tank are kept locked at all times.

Spill Prevention Measures

Overfill prevention is prevented by visual inspection during the filling process.
Emergency Response Information
John Hando, Emergency Response Coordinator, Environmental Health and Safety
Brian Lemme, Environmental Health and Safety Specialist, Stormwater Specialist

Chain of Command
Patrick Kight, Operations Manager
Brian Lemme, Environmental Health and Safety Specialist, Environmental Health and Safety
John Hando, Emergency Response Coordinator, Environmental Health and Safety

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

Cease pumping of domestic water into the tank. Determine the cause of the leak. Repair any portions of the tank, piping, valves or flanges that are leaking.

### 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

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: Dermatril® (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.

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

Water
CAS-No.
7732-18-5

New Jersey Right To Know Components

Water
CAS-No.
7732-18-5

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

16. OTHER INFORMATION

HMIS Rating
Health hazard: 0
Chronic Health Hazard: 
Flammability: 0
Physical Hazard 0

NFPA Rating
Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

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 B
## ATTACHMENT C

### TANK IN-SERVICE INSPECTIONS CHECKLIST

<table>
<thead>
<tr>
<th></th>
<th>Satisfactory</th>
<th>Unsatisfactory</th>
<th>Non Applicable</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundation and Supporting Structure</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Check for settlement around perimeter of tank.</td>
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<tr>
<td>Check for settlement of structure supporting tank.</td>
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<tr>
<td>Check for settlement of tank into the base.</td>
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<tr>
<td><strong>Stormwater and Housekeeping</strong></td>
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<tr>
<td>Inspect site for drainage away from the tank and associated stormwater system.</td>
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<tr>
<td>Inspect the area for build up of trash, vegetation, or other debris.</td>
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<tr>
<td><strong>Shell and Supporting Appurtenances</strong></td>
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<tr>
<td>Visually inspect for paint failures, pitting, corrosion, dents, punctures, cracks or cuts.</td>
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<tr>
<td>Check bracing and supports for lines and equipment.</td>
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<tr>
<td>Inspect visible metallic parts for corrosion and wear.</td>
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<tr>
<td>Inspect condition and functioning of hatch cover.</td>
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<tr>
<td>Inspect scaffold support for corrosion, wear, and structural soundness.</td>
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</tr>
<tr>
<td><strong>Piping and Valves</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Inspect manifold piping, hoses, and valves for leaks.</td>
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<tr>
<td>Inspect flanges and around bolting for leaks.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Inspect connections for leaks and for proper valve operation.</td>
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<tr>
<td>Locate and document any leaks by sketch or photo.</td>
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</tr>
<tr>
<td><strong>Overfill devices</strong></td>
<td></td>
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<tr>
<td>Check freedom of movement of marker and float.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Inspect alarm system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Aboveground Storage Tank Initial and Annual Inspection Checklist

<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>
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<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>
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</tr>
<tr>
<td>Are there any stains around the tank?</td>
<td></td>
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</tr>
<tr>
<td>Are there signs of a recent release around the tank?</td>
<td></td>
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</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>
<td></td>
</tr>
<tr>
<td>Is there debris or trash in the secondary containment?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the tank have a leak detection system?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are leak detection files available and up to date?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does tank have corrosion Protection?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are corrosion protection document available and up to date?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are Operation and Maintenance records available and up to date?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>