Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Product name** ANSUL A-Municipal Class A Foam Concentrate

### 1. Identification

**1.1. Product Identifier**

**Product name**

ANSUL A-Municipal Class A Foam Concentrate

**1.2. Other means of identification**

**Product code**

433442

**Synonyms**

None

**Chemical Family**

No information available

**1.3. Recommended use of the chemical and restrictions on use**

**Recommended use**

Fire extinguishing agent

**Uses advised against**

Consumer use

**1.4. Details of the Supplier of the Safety Data Sheet**

**Company Name**

Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411

**Contact point**

Product Stewardship at 1-715-735-7411

**E-mail address**

psra@tycofp.com

**1.5. Emergency Telephone Number**

**Emergency telephone**

CHEMTREC 800-424-9300 or 703-527-3887

### 2. Hazards Identification

**Classification**

**OSHA Regulatory Status**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**2.2. Label Elements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Precautionary Statements**

**2.3. Hazards Not Otherwise Classified (HNOC)**

Not Applicable.

**2.4. OTHER INFORMATION**

### 3. Composition/information on Ingredients

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**Revision date** 25-May-2015

**Version** 25
3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-(2-Butoxy-1-methylethoxy)propan-2-ol</td>
<td>29911-28-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium Alkene sulphonate</td>
<td>68439-57-6</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. First aid measures

4.1. Description of first aid measures

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact
Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation
Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).

Ingestion
Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms
No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians
Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products
Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact
None.

Sensitivity to Static Discharge
None.
5.5. Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
   Personal Precautions: Ensure adequate ventilation, especially in confined areas.
   For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental Precautions
   Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up
   Methods for Containment: Prevent further leakage or spillage if safe to do so.
   Methods for Cleaning Up: Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling
   Advice on safe handling: Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
   Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls/Personal Protection

8.1. Control Parameters
   Exposure guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Appropriate Engineering Controls
   Engineering controls: Showers, Eyewash stations, Ventilation systems.

8.3. Individual protection measures, such as personal protective equipment
   Eye/Face Protection: Avoid contact with eyes. Tight sealing safety goggles.
   Skin and Body Protection: Wear protective gloves and protective clothing.
Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Ventilation
Use local exhaust or general dilution ventilation to control exposure with applicable limits.

8.4. General hygiene considerations
Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>VALUES</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
<td></td>
</tr>
<tr>
<td>odor threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>100 °C / 212 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability limit in air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

10.1. Chemical Stability
Stable under recommended storage conditions.

10.2. Reactivity
No data available

10.3. Possibility of hazardous reactions
None under normal processing.
hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials


10.6. Hazardous decomposition products


11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information no data available

INHALATION no data available.

Eye Contact no data available.

Skin contact no data available.

INGESTION no data available.

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2</td>
<td>= 1620 µL/kg (Rat)</td>
<td>= 5860 µL/kg (Rabbit)</td>
<td>= 42.1 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Sodium Alkene sulphonate 68439-57-6</td>
<td>= 2310 mg/kg (Rat)</td>
<td>= 6300 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitization No information available.

Germ Cell Mutagenicity No information available

carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - Single Exposure No information available.

STOT - Repeated Exposure No information available.

Aspiration Hazard No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 15472 mg/kg

ATEmix (dermal) 71332 mg/kg
12. Ecological Information

12.1. Ecotoxicity
Not classified

0.275% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2</td>
<td>-</td>
<td>LC50 96 h = 841 mg/L Poecilia reticulata static</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Alkene sulphonate 68439-57-6</td>
<td>-</td>
<td>LC50 96 h = 12.2 mg/L Brachydanio rerio semi-static</td>
<td>LC50 96 h = 10.0 mg/L Brachydanio rerio static</td>
</tr>
<tr>
<td>1,2-Propanediol  57-55-6</td>
<td>EC50 96 h = 19000 mg/L Pseudokirchneriella subcapitata</td>
<td>LC50 96 h = 51600 mg/L Oncorhynchus mykiss static LC50 96 h = 41 - 47 mL/L Oncorhynchus mykiss static LC50 96 h = 51400 mg/L Pimephales promelas static LC50 96 h = 710 mg/L Pimephales promelas</td>
<td>EC50 48 h &gt; 1000 mg/L Daphnia magna Static LC50 24 h &gt; 10000 mg/L Daphnia magna</td>
</tr>
<tr>
<td>Triethanolamine 102-71-6</td>
<td>EC50 72 h = 216 mg/L Desmodesmus subspicatus EC50 96 h = 169 mg/L Desmodesmus subspicatus</td>
<td>LC50 96 h = 10600 - 13000 mg/L Pimephales promelas flow-through LC50 96 h &gt; 1000 mg/L Pimephales promelas static LC50 96 h &gt; 1000 mg/L Pimephales promelas static LC50 96 h &gt; 1000 mg/L Lepomis macrochirus static</td>
<td>EC50 24 h = 1386 mg/L Daphnia magna</td>
</tr>
<tr>
<td>Benzotriazole 95-14-7</td>
<td>EC50 96 h = 15.4 mg/L freshwater algae</td>
<td>39: LC50 96 h = 39 mg/L Oncorhynchus mykiss</td>
<td>EC50 48 h = 141.6 mg/L water flea</td>
</tr>
</tbody>
</table>

12.2. Persistence and Degradability
No information available.

12.3. Bioaccumulation
No information available.

12.4. Other Adverse Effects
No information available

13. Disposal Considerations

13.1. Waste Treatment Methods
Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Do not reuse container.

14. Transport Information

DOT
NOT REGULATED

Revision date 25-May-2015 Version 25
Product code 433442 / Product name ANSUL / A-Municipal Class A Foam Concentrate

15. Regulatory Information

15.1. International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Does not comply</td>
</tr>
<tr>
<td>IECSC</td>
<td>Does not comply</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Does not comply</td>
</tr>
<tr>
<td>AICS</td>
<td>Does not comply</td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic health hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

15.3. US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>57-55-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>102-71-6</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ammonium Benzoate</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1863-63-4</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Benzotriazole</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>95-14-7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. Other information, including date of preparation of the last revision

NFPA
- Health Hazards: 0
- Flammability: 1
- Instability: 0
- Physical and chemical properties: -

HMIS
- Health Hazards: 0
- Flammability: 1
- Physical Hazards: 0
- Personal Protection: X

Revision date: 25-May-2015
Revision note: No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet