# **SAFETY DATA SHEET**

## Azo-Grout™ 551 Fast Foam



## **Section 1. Identification**

GHS product identifier : Azo-Grout™ 551 Fast Foam

Product code : Not available.

Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Soil Stabilization and Waterstop.

Manufacturer : Azon USA Inc.

2204 Ravine Road

Kalamazoo, MI 49004-3516

U.S.A.

Tel: 269-385-5942

Emergency telephone number (with hours of operation) : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

24/7

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture GHS label elements : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Hazard pictograms :



Signal word : Warning

**Hazard statements** : H319 - Causes serious eye irritation.

**Precautionary statements** 

## Section 2. Hazards identification

Prevention : P280 - Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

Response : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise : None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.
identification

| Ingredient name     | %      | CAS number |
|---------------------|--------|------------|
| 2,2' -Oxybisethanol | 5 - 10 | 111-46-6   |
| Ethanediol          | 1 - 5  | 107-21-1   |

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical or CO<sub>2</sub>. Water spray for large fires.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Spill** 

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

Control parameters
United States

Occupational exposure limits

# Section 8. Exposure controls/personal protection

| Ingredient name     | Exposure limits  |
|---------------------|--|
| 2,2' -Oxybisethanol | AIHA WEEL (United States, 7/2018).                                 |
|                     | TWA: 10 mg/m <sup>3</sup> 8 hours.                                 |
| Ethanediol          | ACGIH TLV (United States, 3/2018).                                 |
|                     | STEL: 10 mg/m³ 15 minutes. Form: Inhalable fraction. Aerosol only. |
|                     | STEL: 50 ppm 15 minutes. Form: Vapor fraction                      |
|                     | TWA: 25 ppm 8 hours. Form: Vapor fraction                          |

#### Canada

#### Occupational exposure limits

| Ingredient name     | Exposure limits                                  |
|---------------------|--|
| 2,2' -Oxybisethanol | AIHA WEEL (United States, 7/2018).               |
| •                   | TWA: 10 mg/m³ 8 hours.                           |
| Ethanediol          | CA Ontario Provincial (Canada, 1/2018).          |
|                     | C: 100 mg/m³ Form: Aerosol only                  |
|                     | CA British Columbia Provincial (Canada, 7/2018). |
|                     | C: 100 mg/m³ Form: Aerosol.                      |
|                     | TWA: 10 mg/m³ 8 hours. Form: Particulate.        |
|                     | STEL: 20 mg/m³ 15 minutes. Form: Particulate.    |
|                     | C: 50 ppm Form: Vapor                            |
|                     | CA Saskatchewan Provincial (Canada, 7/2013).     |
|                     | CEIL: 100 mg/m³ Form: Aerosol.                   |
|                     | CA Quebec Provincial (Canada, 1/2014).           |
|                     | STEV: 50 ppm 15 minutes. Form: Vapor and mist    |
|                     | STEV: 127 mg/m³ 15 minutes. Form: Vapor and mist |
|                     | CA Alberta Provincial (Canada, 6/2018).          |
|                     | C: 100 mg/m³                                     |

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Section 8. Exposure controls/personal protection

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Clear.] Color : Clear to light yellow.

Odor Slight.

**Odor threshold** : Not available. Ha Not available. **Melting point** : Not available. **Boiling point/boiling range** Not available.

: Closed cup: >93.333°C (>200°F) [Pensky-Martens.] Flash point

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits Vapor pressure

: Not available. Vapor density : Not available. **Relative density** : 1.04 to 1.05

Solubility : Slightly soluble in water.

Partition coefficient: n-

octanol/water

: Not available.

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): 185 to 235 mPa·s (185 to 235 cP)

Flow time (ISO 2431) : Not available.

# Section 10. Stability and reactivity

Reactivity : This material reacts with isocyanates.

**Chemical stability** : The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid extreme heat, direct sunlight, and moisture.

**Incompatible materials** : Strong oxidizers, strong alkalis.

**Hazardous decomposition** 

products

: Carbon monoxide, carbon dioxide, oxides of nitrogen.

# **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name | Result      | Species | Dose        | Exposure |
|-------------------------|-------------|---------|-------------|----------|
| 2,2' -Oxybisethanol     | LD50 Dermal | Rabbit  | 11890 mg/kg | -        |
|                         | LD50 Oral   | Rat     | 12000 mg/kg | -        |
| Ethanediol              | LD50 Oral   | Rat     | 4700 mg/kg  | -        |

### **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| 2,2' -Oxybisethanol     | Eyes - Mild irritant     | Rabbit  | -     | 50 mg           | -           |
| ·                       | Skin - Mild irritant     | Rabbit  | -     | 500 mg          | -           |
| Ethanediol              | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 1 hours 100 mg  | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 6 hours 1440 mg | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 555 mg          | -           |

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

## Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

# **Section 11. Toxicological information**

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

•

: No known significant effects or critical hazards.

effects

Potential delayed effects

: No known significant effects or critical hazards.

**Long term exposure** 

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

| Route | ATE value     |
|-------|---------------|
| Oral  | 3630.26 mg/kg |

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                              | Species   | Exposure             |
|-------------------------|-------------------------------------|---|----------------------|
|                         | Acute LC50 6900000 μg/L Fresh water | Fish - Pimephales promelas<br>Crustaceans - Ceriodaphnia dubia -<br>Neonate | 96 hours<br>48 hours |
|                         | . 5                                 | Daphnia - Daphnia magna - Neonate<br>Fish - Pimephales promelas             | 48 hours<br>96 hours |

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 2,2' -Oxybisethanol     | -1.98  | 100 | low       |
| Ethanediol              | -1.36  |     | low       |

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

|                            | DOT Classification | TDG Classification | IMDG           | IATA           |
|----------------------------|--------------------|--------------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -                  | -              | -              |
| Transport hazard class(es) | -                  | -                  | -              | -              |
| Packing group              | -                  | -                  | -              | -              |
| Environmental hazards      | No.                | No.                | No.            | No.            |

**AERG**: Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# **Section 15. Regulatory information**

: United States inventory (TSCA 8b): All components are listed or exempted. U.S. Federal regulations

Clean Water Act (CWA) 311: Acetaldehyde; Formaldehyde

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

: Not listed

**DEA List I Chemicals** (Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

# Section 15. Regulatory information

### **Composition/information on ingredients**

|              |      | SARA 302 TPQ |           | SARA 304 RQ |           |
|--------------|------|--------------|-----------|-------------|-----------|
| Name         | EHS  | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Formaldehyde | Yes. | 500          | 73.9      | 100         | 14.8      |

SARA 304 RQ : 3044140030.4 lbs / 1382039573.8 kg [349374382.9 gal / 1322525908 L]

**SARA 311/312** 

Classification : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

### **Composition/information on ingredients**

| Name                | Classification                                   |
|---------------------|--|
| 2,2' -Oxybisethanol | ACUTE TOXICITY (oral) - Category 4               |
|                     | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B |
| Ethanediol          | ACUTE TOXICITY (oral) - Category 4               |
|                     | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |

#### **SARA 313**

|                                 | Product name | CAS number |
|---------------------------------|--------------|------------|
| Form R - Reporting requirements | Ethanediol   | 107-21-1   |
| Supplier notification           | Ethanediol   | 107-21-1   |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts: The following components are listed: EthanediolNew York: The following components are listed: EthanediolNew Jersey: The following components are listed: Ethanediol

Pennsylvania : The following components are listed: Ethanediol; 2,2' -Oxybisethanol

#### California Prop. 65



**WARNING**: This product can expose you to chemicals including 1,4-Dioxane, Acetaldehyde and Formaldehyde, which are known to the State of California to cause cancer, and Ethanediol and 2-Methoxyethanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www. P65Warnings.ca.gov.

### **Canadian lists**

Canada inventory (DSL

: All components are listed or exempted.

NDSL)

Canadian NPRI : The following components are listed: Ethanediol

**CEPA Toxic substances** : None of the components are listed.

## Section 16. Other information

#### Procedure used to derive the classification

| Classification                                   | Justification      |
|--|--------------------|
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Calculation method |

### **History**

Date of issue mm/dd/yyyy : 07/30/2019

Date of previous issue : Not applicable

Version : 1

### Azo-Grout™ 551 Fast Foam

## **Section 16. Other information**

Internal code : 119-033

Prepared by : KMK Regulatory Services Inc.

**Key to abbreviations** : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.