



# SAFETY DATA SHEET

## AWS High-Build 212

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** High-Build Acrylic 212

#### Recommended use of the chemical and restrictions on use

**Application** Coating

**Uses advised against** No specific uses advised against are identified

#### Details of the supplier of the safety data sheet

**Manufacturer** American WeatherStar  
8095 Padgett Switch Rd.  
Irvington, AL 36544 USA  
T: 800.771.6643

#### Emergency telephone number

**Emergency telephone** 800.535.5053

### 2. Hazard(s) identification

#### Hazard Classification

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

##### **Titanium dioxide**

CAS number: 13463-67-7

1 - <15%

##### **Zinc oxide**

CAS number: 1314-13-2

0 - <0.5%

##### **Aluminum hydroxide**

CAS number: 21645-51-2

10 - <55%

<b>Ammonia</b> CAS number: 1336-21-6	<1%
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<b>Biocide - withheld as TRADE SECRET</b> CAS number: Proprietary	<1%
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**Composition comments**                      The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200  
The product identifiers are withheld as a trade secret in accordance with 29 CFR 1910.1200

#### 4. First-aid measures

##### Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give 1 to 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.
<b>Eye contact</b>	Rinse with plenty of water. If eye irritation persists, consult a specialist.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information

##### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treatment should be directed at preventing absorption, administerint to systems (if they offur), and providing supportive therapy
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#### 5. Fire-fighting measures

##### Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

##### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Acrylic monomers. Harmful gases or vapors.

##### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate the area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

### Environmental precautions

**Environmental precautions** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Contain spills immediately with inert material, (e.g. sand, earth). Transfer spilled material to suitable containers for recovery or disposal.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. May cause cancer. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class** Miscellaneous hazardous material storage.

**Shelf-Life** 12 months

**Storage temperature** Minimum storage temperature: 1°C/33.8°F  
Maximum storage temperature: 49°C/120.2°F

### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure Controls/personal protection

**Control parameters****Occupational exposure limits****Comments**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Aluminum Trihydroxide**

Long-term exposure limit (8-hour TWA): OSHA 10 mg/m<sup>3</sup>

respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup>

total dust

**Titanium dioxide**

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup> A4

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup>

total dust

**Zinc oxide**

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup>

fume

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup>

total dust

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m

respirable fraction

Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup>

respirable fraction

**Aluminum hydroxide**

Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m<sup>3</sup>

A4

**Ammonia**

Long-term exposure limit (8-hour TWA): ACGIH 25 ppm 17 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 35 ppm 24 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 35 mg/m<sup>3</sup>

**Biocide - withheld as TRADE SECRET**

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup> A4

**Titanium Dioxide (CAS: 13463-67-7)**

**Immediate danger to life  
and health**

5000 mg/m<sup>3</sup>

**Zinc oxide (CAS: 1314-13-2)**

**Immediate danger to life  
and health**

500 mg/m<sup>3</sup>

**Ammonia (CAS: 1336-21-6)**

**Immediate danger to life  
and health**

300 ppm

**Exposure controls****Protective equipment**

<b>Appropriate engineering controls</b>	Provide adequate ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Mild. Amine.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	0°C (as water)
<b>Initial boiling point and range</b>	100°C (boiling point of water)
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	17 mm Hg @ 20°C/68°F
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Specific Gravity</b>	1.2 – 1.5
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.

<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>Volatile organic compound</b>	<50g/liter

## 10. Stability and reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity – oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

#### Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met. The product contains a small amount of sensitizing substance. May cause skin sensitization or allergic reactions in sensitive individuals.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data criteria are not met.

<b>IARC carcinogenicity</b>	Based on available data criteria are not met.
<b>NTP carcinogenicity</b>	Based on available data criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met
<b>Inhalation</b>	With proper ventilation single exposure is not expected to cause adverse effects.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
<b>Skin contact</b>	Discoloration of the skin. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Route of entry</b>	Ingestion, Inhalation, skin and/or eye contact.
<b>Target organs</b>	No specific target organs known.

## 12. Ecological information

<b>Toxicity</b>	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The degradability of the product is not known.
<b><u>Bio-accumulative potential</u></b>	
<b>Bio-accumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	No data available.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

## 13. Disposal considerations

### Waste treatment methods

**General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**

Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**14. Transport information****General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

**UN Number**

Not applicable.

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

No transport warning sign required.

**Packing group**

Not applicable.

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

Not applicable.

**DOT TIH Zone**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information****Regulatory Status**

Classified in accordance with Appendix A, Appendix B and Appendix F of the OSHA Hazard Communication Standard 29 CFR § 1910.1200

**Regulatory References**

OSHA Hazard Communication Standard 29 CFR §1910.1200

**US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:

*Ammonia*

Final CERCLA RQ: 1000(454) pounds (Kilograms)

*methyl benzimidazol-2-yl carbamate*

Final CERCLA RQ: 10(4.54) pounds (Kilograms)

*Biocide - withheld as TRADE SECRET*

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

#### **SARA 313 Emission Reporting**

The following ingredients are listed or exempt:

*Ammonia*

1.0%

*Zinc oxide*

1.0%

*Biocide - withheld as TRADE SECRET*

1.0%

*Biocide - withheld as TRADE SECRET*

1.0%

#### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

#### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

#### **SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

#### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

#### **US State Regulations**

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

The following ingredients are listed or exempt:

*Benzophenone*

Known to the State of California to cause cancer.

*Titanium Dioxide*

Known to the State of California to cause cancer.

*Biocide - withheld as TRADE SECRET*

Known to the State of California to cause cancer.

##### **California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed or exempt:

*Zinc oxide*

**California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

**California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

*Ammonia*

*Biocide - withheld as TRADE SECRET*

**Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

*Ammonia*

*Titanium Dioxide*

*Zinc oxide*

*Biocide - withheld as TRADE SECRET*

**Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

*Benzophenone*

*Titanium Dioxide*

*Zinc oxide*

*Propane-1,2-diol*

*Biocide - withheld as TRADE SECRET*

**Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

*Benzophenone*

*Titanium Dioxide*

*Zinc oxide*

*Propane-1,2-diol*

*Biocide - withheld as TRADE SECRET*

**New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

*Ammonia*

*Titanium Dioxide*

*Zinc oxide*

*Propane-1,2-diol*

*Biocide - withheld as TRADE SECRET*

*methyl benzimidazol-2-yl carbamate*

*Biocide - withheld as TRADE SECRET*

**Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*Ammonia*

*Titanium Dioxide*

Zinc oxide

Propane-1,2-diol

Biocide - withheld as *TRADE SECRET*

### **Inventories**

#### **US – TSCA**

All the ingredients are listed or exempt.

#### **US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

**Note:** Based on information provided by our suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7- 40-10; Date: 2012-08-22).

## **16. Other information**

### **Classification abbreviations and acronyms**

Carc. = Carcinogenicity

### **Training advice**

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

### **Revision date**

8/30/2019

### **Revision**

2

### **Supersedes date**

6/30/2016

### **SDS No.**

5533

### **Hazard statements in full**

H350 May cause cancer.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.