Safety Data Sheet
AWS Flashing Grade 222

SDS Revision Date: 05/27/2015

SECTION 1: Identification

1.1. Product identifier

Product Identity	AWS Flashing Grade 222
Alternate Names	AWS Flashing Grade 222

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

Intended use	Coating for spray polyurethane foam.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	American WeatherStar, LLC. 8095 Padgett Switch Rd Irvington, AL 36544
Emergency **24 hour Emergency Telephone No.**	INFOTRAC— (800) 535-5053 800-771-6643

Customer Service: American WeatherStar, LLC.

SECTION 2: Hazard(s) Identification

GHS Classification

Carcinogenicity: Category 1A

GHS Label Elements

Hazard pictograms:

Signal word: Danger

Hazard statements: May cause cancer.

Precautionary statements:

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Response:
IF exposed or concerned: Get medical attention.

Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

SECTION 3: Composition/Information on Ingredients

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 24 %

Hazardous Components

Weight Percent	Components	CAS-No.	Classification
1 - 5%	Titanium dioxide (Rutile)	13463-67-7	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7	Acute toxicity Category 4 Oral. Carcinogenicity Category 1A. Specific target organ toxicity - repeated exposure Category 1 Lungs.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

SECTION 4: First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: Not expected to cause adverse acute health effect.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5: Fire Fighting Meausres

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

SECTION 6: Accidental release measures

Spill and Leak Procedures
Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

SECTION 7: Handling and Storage

Handling/Storage Precautions
Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Storage Period:
12 Months

Storage Temperature
Minimum: 1 °C (33.8 °F)
Maximum: 49 °C (120.2 °F)
Storage Conditions
None known

Substances to Avoid
None known

SECTION 8: Exposure controls and personal protection

Titanium dioxide (Rutile) (13463-67-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 10 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Permissible exposure limit: 15 mg/m3 (Total dust.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Crystalline Quartz Silica (14808-60-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.)

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 0.1 mg/m3 (Respirable.)The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.3 mg/m3 (Total dust.)The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

US. ACGIH Threshold Limit Values
Hazard Designation: Group A2 Suspected human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures
When handling this product, ventilation of the work area is recommended..

Respiratory Protection
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit..

Hand Protection
Permeation resistant gloves, Neoprene gloves

Eye Protection
Chemical safety goggles or safety glasses with side-shields.

Skin Protection
Wear as appropriate, disposable one-piece overall with integral hood, impervious protective clothing.

Additional Protective Measures
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

SECTION 9: Physical and chemical properties

State of Matter:	liquid
Color:	Various
Odor:	Amine
Odor Threshold:	No Data Available
pH:	No Data Available
Boiling Point:	100 °C (212 °F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Evaporation Rate:	No Data Available
Lower Explosion Limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	17 mmHg @ 20 °C (68 °F) similar to water
Vapor Density:	No Data Available
Density:	No Data Available
Relative Vapor Density:	No Data Available
Specific Gravity:	1.44
Solubility in Water:	No Data Available
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available

Decomposition Temperature:	No Data Available
Dynamic Viscosity:	No Data Available
Kinematic Viscosity:	No Data Available

SECTION 10: Stability and reactivity

Hazardous Reactions
Hazardous polymerization does not occur.

Stability
Stable

Materials to Avoid
None known.

Hazardous Decomposition Products
By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

SECTION 11: Toxicological information

Likely Routes of Exposure: Skin Contact
Eye Contact
Inhalation

Health Effects and Symptoms
Acute: Not expected to cause adverse acute health effects
Chronic: May cause cancer.

Toxicity Data for EVERCOAT FG

No data available for this product.

Toxicity Data for Titanium dioxide (Rutile)
Acute Oral Toxicity
LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

Acute Inhalation Toxicity
LC50: > 6.82 mg/l, 4 h (rat, male)

Acute Dermal Toxicity
LD50: > 10000 mg/kg (rabbit)

Skin Irritation
rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

Eye Irritation
rabbit, OECD Test Guideline 405, Non-irritating

Sensitization
dermal: non-sensitizer (Guinea pig, Maximization Test)
dermal: non-sensitizer (Human, Patch Test)
Skin sensitization (local lymph node assay (LLNA)): negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity
28 Days, inhalation: NOAEL: 35 mg/m3, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)
Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Drosophila SLRL test: negative (Drosophila melanogaster) negative

Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity
Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

Other Relevant Toxicity Information
May cause irritation of respiratory tract.

Toxicity Data for Crystalline Quartz Silica
Acute Oral Toxicity
LD50: 500 mg/kg (rat)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Sister Chromatid Exchange: ambiguous (hamster) ambiguous

Carcinogenicity
rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

Carcinogenicity:

Titanium dioxide (Rutile)	**IARC** -	Overall evaluation:	2B Possibly carcinogenic to humans.
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	**IARC** -	Overall evaluation:	2B Possibly carcinogenic to humans.
Crystalline Quartz Silica	**NTP** - Hazard Designation: Known To Be Human Carcinogen.		
	IARC -	Overall evaluation:	1 Carcinogenic to humans.

SECTION 12: Ecological information

No data available for this product.

Ecological Data for Titanium dioxide (Rutile)
Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

Acute Toxicity to Aquatic Invertebrates
EC0: > 3 mg/l (Water flea (Daphnia magna))

Toxicity to Microorganisms
EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)

SECTION 13: Disposal Considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Container Precautions
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION 14: Transport Information

Land transport (DOT)
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

SECTION 15: Regulatory Information

United States Federal Regulations
US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:
None

SARA Section 311/312 Hazard Categories:
Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):
Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight percent	Components	CAS-No.
35 - 45%	Limestone	1317-65-3
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
5 – 10%	Titanium dioxide (Rutile)	13463-67-7

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight percent	Components	CAS-No.
0.1 - 1%	Ammonium Hydroxide	1336-21-6
0.1 - 1%	Aluminum Oxide	1344-28-1

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Weight percent	Components	CAS-No.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7
<0.1%	Carbon Black	1333-86-4

California Prop. 65:
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.

Weight percent	Components	CAS-No.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7
<0.1%	Carbon Black	1333-86-4

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).

SECTION 16: Other information

The method of hazard communication for American WeatherStar is comprised of Product Labels and Safety Data Sheets.

Contact: INFOTRAC
Telephone: (800) 535-5053
Version Date: 05/27/2015
SDS Version: 1.1

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