



Section 1 - Product and Company Identification

Material Name * APOC 258 Energy-Armor Ultra Turbo-Dri Premium Elastomeric Roof Coating
Product Code * AP-2581, AP-2585
Product Description * White Liquid.
Product Use * White Reflective Roof Coating
Synonyms * White Elastomeric Roof Coating
Manufacturer * Gardner Gibson
4701 E. 7th Avenue
Tampa, FL 33605
United States
www.gardner-gibson.com
Please use "Contact Us" form on the website
Telephone
Technical * 813-248-2101
Emergency * 800-424-9300
Emergency * 703-527-3887
Preparation Date * 11/4/2020
Last Revision Date * 11/4/2020

Section 2 - Hazards Identification

Emergency Overview

Empty rectangular box for emergency overview details.

WARNING

Causes mild skin irritation. Harmful if swallowed.

Prevention Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention.

Storage/Disposal Store in a closed container. Do not allow product to freeze. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



Empty rectangular box for additional hazard information.

CAUTION - May cause eye and skin irritation on contact.

Physical Form

* Liquid

Color

* White Liquid.

Odor

* Acrylic Paint-Like Odor.

Flash Point

* > 247 F(> 119.4444 C)

OSHA

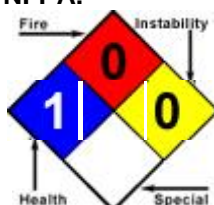
* Irritant

WHMIS

* Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

**GHS**

* Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenic - 2

NFPA:**Potential Health Effects****Inhalation****Acute (Immediate)**

* Inhalation of vapors or mists may cause central nervous system depression, light-headedness, headache, nausea and loss of coordination.

Chronic (Delayed)

* Under normal conditions of use, no health effects are expected.

Skin**Acute (Immediate)**

* May cause irritation.

Chronic (Delayed)

* Repeated and prolonged exposure to the skin may cause dermatitis.

Eye**Acute (Immediate)**

* Likely to cause eye irritation, burning, tearing, etc. on contact with the eyes. If swelling and irritation persist, seek medical attention.

Chronic (Delayed)

* Direct contact may cause slight to moderate irritation.

Ingestion**Acute (Immediate)**

* May cause irritation. May affect the nervous system. May be harmful or fatal if swallowed.

Chronic (Delayed)

* Repeated and prolonged exposure may cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

Carcinogenic Effects

| | CAS | IARC | NTP |
|------------------|------------|-----------------------------|-----------------------------|
| Titanium Dioxide | 13463-67-7 | Group 2-Possible Carcinogen | Evidence of Carcinogenicity |

Section 3 - Composition/Information on Ingredients**Hazardous Components**

| Chemical Name | Identifiers | %(weight) | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
|--------------------------|------------------|-----------|-----------------------------------|---|----------|
| Acrylic Polymer Solution | CAS#: 68698-67-9 | 35.0% | | | |
| Calcium Carbonate | CAS#: 1317-65-3 | 28.0% | | | |
| Titanium Dioxide | CAS#: 13463-67-7 | 15.0% | | | |
| Propylene Glycol | CAS#: 57-55-6 | 1.0% | Ingestion/Oral-Rat LD50 · 20 g/kg | | |

| | | | | | |
|---------------|------------------|------|--------------------------------------|--|--|
| Texanol Ester | CAS#: 25265-77-4 | 1.0% | Ingestion/Oral-Rat LD50 · 3200 mg/kg | | |
|---------------|------------------|------|--------------------------------------|--|--|

| Non-Hazardous Components | | | | | |
|--------------------------|-----------------|-----------|-----------|---|----------|
| Chemical Name | Identifiers | %(weight) | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| Water | CAS#: 7732-18-5 | 20.0% | | | |

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

Section 4 - First Aid Measures

| | |
|-------------------|--|
| Inhalation | * IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention. |
| Skin | * Rinse skin immediately with plenty of water for 15-20 minutes. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| Eye | * If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Ingestion | * If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

Section 5 - Fire Fighting Measures

| | |
|---|--|
| Extinguishing Media | * LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, water spray or regular foam. |
| Unsuitable Extinguishing Media | * No data available. |
| Firefighting Procedures | * Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep unauthorized personnel away. |
| Unusual Fire and Explosion Hazards | * Product containers may rupture when exposed to extreme heat. Precautions should be taken to prevent release of materials. |
| Hazardous Combustion Products | * Non-combustible, substance itself does not burn but may decompose upon heating to produce toxic fumes. |
| Protection of Firefighters | * Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. |
| Flash Point | * > 247 F(> 119.4444 C) CC (Closed Cup) |

Section 6 - Accidental Release Measures

| | |
|--------------------------------------|---|
| Personal Precautions | * Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| Emergency Procedures | * Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. |
| Environmental Precautions | * Avoid run off to waterways and sewers. |
| Containment/Clean-up Measures | * Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use appropriate Personal Protective Equipment (PPE) |
| Prohibited Materials | * Avoid contact with strong oxidizing agents and acids. |

Section 7 - Handling and Storage

| | |
|---|--|
| Handling | * KEEP OUT OF THE REACH OF CHILDREN! Keep containers tightly closed when not in use. |
| Storage | * Avoid extreme temperatures and freezing. Keep container/package tightly closed and in a well-ventilated place. |
| Special Packaging Materials | * Not Applicable. |
| Incompatible Materials or Ignition Sources | * Avoid contact with strong oxidizing agents and acids. |

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

| | | | | |
|-------------------|---|---|---|---|
| Pictograms | * |  |  |  |
|-------------------|---|---|---|---|

Respiratory * When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

Eye/Face * Wear ANSI approved safety glasses with side shields or safety goggles.

Hands * Wear chemical resistant gloves with repeated or prolonged exposure.

Engineering Measures/Controls * Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

| Exposure Limits/Guidelines | | | | | |
|-------------------------------|--------|--|----------------------------------|--|--|
| | Result | Canada Ontario | Mexico | NIOSH | OSHA |
| Propylene Glycol (57-55-6) | TWAs | 50 ppm TWAEV (total aerosol and vapour); 155 mg/m ³ TWAEV (total aerosol and vapour); 10 mg/m ³ TWAEV (for assessing the visibility in a work environment, aerosol only) | Not established | Not established | Not established |
| Titanium Dioxide (13463-67-7) | TWAs | 10 mg/m ³ TWAEV (total dust) | 10 mg/m ³ TWA (as Ti) | Not established | 15 mg/m ³ TWA (total dust) |
| Calcium Carbonate (1317-65-3) | TWAs | Not established | 10 mg/m ³ TWA | 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust) | 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) |

Section 9 - Physical and Chemical Properties

| Material Description | | | |
|---------------------------|---------------------------------|-----------------------------------|---|
| Physical Form | Liquid | Appearance/Description | White liquid with the consistency of paint. |
| Color | White Liquid. | Odor | Acrylic Paint-Like Odor. |
| Taste | No data available. | Particulate Type | Not relevant |
| Particulate Size | Not relevant | Aerosol Type | Not relevant |
| Odor Threshold | No data available | | |
| General Properties | | | |
| Boiling Point | 212 to 245 F(100 to 118.3333 C) | Melting Point | No data available |
| Decomposition Temperature | No data available | Heat of Decomposition | Not relevant |
| pH | 8 @ 25 C(77 F) | Specific Gravity/Relative Density | 1.33 Water=1 |
| Density | 11.05 lbs/gal @ 25 C(77 F) | Bulk Density | No data available |

| | | | |
|-------------------------------------|---|--|-------------------|
| Water Solubility | Soluble 100 % @ 25 C(77 F) | Solvent Solubility | Not relevant |
| Viscosity | 115 - 120 Krebs-Stormer (KU) @ 25 C(77 F) | | |
| Volatility | | | |
| Vapor Pressure | 0.1 mmHg (torr) @ 20 C(68 F) | Vapor Density | > 1 Air=1 |
| Evaporation Rate | < 1 Ether = 1 | VOC (Wt.) | No data available |
| VOC (Vol.) | < 15 g/L | Volatiles (Wt.) | No data available |
| Volatiles (Vol.) | No data available | | |
| Flammability | | | |
| Flash Point | > 247 F(> 119.4444 C) | Flash Point Test Type | CC (Closed Cup) |
| UEL | No data available | LEL | No data available |
| Autoignition | No data available | Self-Accelerating Decomposition Temperature (SADT) | Not relevant |
| Heat of Combustion (ΔH_c) | Not relevant | Burning Time | Not relevant |
| Flame Duration | Not relevant | Flame Height | Not relevant |
| Flame Extension | Not relevant | Ignition Distance | Not relevant |
| Environmental | | | |
| Half-Life | Not relevant | Octanol/Water Partition coefficient | Not relevant |
| Coefficient of Water | Not relevant | Bioaccumulation Factor | Not relevant |
| Bioconcentration Factor | Not relevant | Biochemical Oxygen Demand BOD/BOD5 | Not relevant |
| Chemical Oxygen Demand | Not relevant | Persistence | Not relevant |
| Degradation | Not relevant | | |

Section 10 - Stability and Reactivity

| | |
|---|---|
| Stability | * Stable under normal temperatures and pressures. |
| Hazardous Polymerization | * Hazardous polymerization not indicated. |
| Conditions to Avoid | * Excessive heat and freezing. |
| Incompatible Materials | * Strong oxidizers and acids. |
| Hazardous Decomposition Products | * No known issues under normal usage conditions. |

Section 11 - Toxicological Information

| Component Name | CAS | Data |
|--------------------------------|------------|---|
| Titanium Dioxide (15% TO 25%) | 13463-67-7 | Acute Toxicity: orl-rat TDLo:60 gm/kg; Irritation: skn-hmn 300 ug/3D-I MLD |
| Propylene Glycol (0.25% TO 1%) | 57-55-6 | Acute Toxicity: orl-rat LD50:20 gm/kg; skn-hmn TCLo:10 pph; skn-hmn TDLo:5 mg/kg/7D-I; Irritation: skn-hmn 500 mg/7D MLD |
| Texanol Ester (0.1% TO 1%) | 25265-77-4 | Acute Toxicity: orl-rat LD50:3200 mg/kg; ihl-rat LC :>3500 mg/m3/6H |

Other Component Information * IARC has concluded that the following chemicals in this product are possibly carcinogenic to humans(Group 2): Titanium Dioxide. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

Section 12 - Ecological Information

| | |
|----------------------------------|----------------------|
| Ecological Fate | * No data available. |
| Persistence/Degradability | * No data available. |
| Bioaccumulation Potential | * No data available. |

Mobility in Soil
Other Information

- * No data available.
- * Do not allow product exposure to the ground or into any waterway. Do not allow entry into municipal sewer systems.

Section 13 - Disposal Considerations

Product * Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT - United States - Department of Transportation - Shipping Name: Not Regulated.

TDG - Canada - Transportation of Dangerous Goods - Shipping Name: Not Restricted.

IMO/IMDG - International Maritime Transport Shipping Name: Not Regulated.

IATA - International Air Transportation Association - Not Regulated.

Section 15 - Regulatory Information

SARA Hazard Classifications * Acute, Chronic

| State Right To Know | | | | | |
|--------------------------|------------|-----|-----|-----|-----|
| Component | CAS | MA | MN | NJ | PA |
| Water | 7732-18-5 | No | No | No | No |
| Acrylic Polymer Solution | 68698-67-9 | No | No | No | No |
| Calcium Carbonate | 1317-65-3 | Yes | Yes | Yes | Yes |
| Titanium Dioxide | 13463-67-7 | Yes | Yes | Yes | Yes |
| Propylene Glycol | 57-55-6 | No | Yes | Yes | Yes |
| Texanol Ester | 25265-77-4 | No | No | No | No |

| Inventory | | | |
|--------------------------|------------|-----------|------|
| Component | CAS | EU EINECS | TSCA |
| Water | 7732-18-5 | Yes | Yes |
| Acrylic Polymer Solution | 68698-67-9 | No | No |
| Calcium Carbonate | 1317-65-3 | Yes | Yes |
| Titanium Dioxide | 13463-67-7 | Yes | Yes |
| Propylene Glycol | 57-55-6 | Yes | Yes |
| Texanol Ester | 25265-77-4 | Yes | Yes |

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Calcium Carbonate 1317-65-3 D2A
- Titanium Dioxide 13463-67-7 D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS website.)
- Propylene Glycol 57-55-6 Uncontrolled product according to WHMIS classification criteria
- Texanol Ester 25265-77-4 Uncontrolled product according to WHMIS classification criteria

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Calcium Carbonate 1317-65-3 Not Listed
- Titanium Dioxide 13463-67-7 Not Listed
- Propylene Glycol 57-55-6 Not Listed
- Texanol Ester 25265-77-4 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- Calcium Carbonate 1317-65-3 Not Listed
- Titanium Dioxide 13463-67-7 Not Listed
- Propylene Glycol 57-55-6 Not Listed
- Texanol Ester 25265-77-4 Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- Calcium Carbonate 1317-65-3 Toxic
- Titanium Dioxide 13463-67-7 Toxic
- Propylene Glycol 57-55-6 Combustible
- Texanol Ester 25265-77-4 Not Listed

Other Information * WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Preparation Date * 11/4/2020

Last Revision Date * 11/4/2020

Disclaimer/Statement of Liability * This information relates 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 our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to verify the suitability and completeness of such information for particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.