

Section 1 - Product and Company Identification

Material Name - APOC #11 Premium Roofing Granules

Chemical Category - Article **Product Code** - AP-0115

Product Use - Granules for coating roofing shingles

Distributor - APOC

4161 E. 7th Avenue Tampa, FL 33605 United States

Telephone

Technical - 813-248-2101 **Emergency** - 800-424-9300

Last Revision Date - 3/31/2016

Section 2 - Hazards Identification

Signal Word - Danger

GHS Hazards and Precautions

May cause cancer. Causes damage to organs through prolonged or repeated exposure:

respiratory system

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke

when using this product. Wash thoroughly after handling.

Response IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel

unwell.

Storage/Disposal Store locked up. Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.



Physical Form - Solid Granules

Color-WhiteOdor-Slight OilyFlash Point-Not Applicable

OSHA(HCS2012) - Carcinogenicity: Category 1A. Specific Target Organ Toxicity (repeated

exposure): Category 1.

Route Of Entry - Inhalation, Skin, Eye, Ingestion/Oral

Medical Conditions Aggravated by - Silicosis: Signs/symptoms may include breathlessness, weakness,

chest pain, persistent cough, increased amounts of sputum, and heart

disease.

Potential Health Effects

Inhalation

Exposure

Acute (Immediate) - Signs/symptoms may include cough, sneezing, nasal discharge, headache,

hoarseness, and nose and throat pain.

Chronic (Delayed) - Silicosis

Skin

Acute (Immediate) Chronic (Delayed) - Signs/symptoms may include abrasion, redness, pain, and itching.

- This product is not expected to cause skin sensitization.

Eye

Acute (Immediate) Chronic (Delayed) Ingestion - Signs/symptoms may include pain, redness, tearing and corneal abrasion..

Not Classified

Acute (Immediate)

- May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

No data available

Chronic (Delayed) - No data
Carcinogenic Effects - Contain

- Contains a chemical or chemicals which can cause cancer.

Carcinogenic Effects						
	CAS	IARC	NTP			
SILICA, CRYS AIRRESP	14808-60-7		Known human carcinogen			
Quartz (a component of Dacite Porphyry)	14808-60-7	Grp. 1: Carcinogenic to humans				
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.				

Section 3 - Composition/Information on Ingredients

Components						
Chemical Name	CAS	%(wt)	UN;EI NECS	LD50/LC50	Classifications According to Regulation/Directive	
Dacite Porphyry (composition varies naturally, typically contains feldspars, amphibole, magnetite, ilmenite, biotite and epidote)	Mixture	75 - 85		Ingestion: LD50 estimated to be 2,000 - 5,000 mg/kg		
Quartz (a component of Dacite Porphyry)	14808-60-7	25 - 35		Ingestion: LD50 estimated to be > 5,000 mg/kg		
Ceramic Coating	Trade Secret*	2 - 4		Ingestion: LD50 estimated to be 2,000 - 5,000 mg/kg		
Titanium Dioxide	13463-67-7	0.1 - 1.0		Inhalation- Dust/Mist(4 hours): LC50 > 6.82 mg/l. LD50 > 10,000 mg/kg		
Inorganic Pigments	Mixture	0 - 0.1				
Oil	64741-96-4	< 0.2		Ingestion: LD50 > 5,000 mg/kg		

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

Inhalation

- Remove person to fresh air. If you feel unwell, get medical attention.

Skin

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye

- Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If

signs/symptoms persist, get medical attention.

Ingestion

Rinse mouth. If you feel unwell, get medical attention.

Other Information - See Section 11.1. Information on toxicological effects.

Section 5 - Fire Fighting Measures

Extinguishing Media

Unsuitable Extinguishing

Media

Firefighting Procedures

- Non-combustible. Use a fire fighting agent suitable for surrounding fire.

No data available

- Use standard firefighting procedures and consider the hazards of other involved

materials.

Unusual Fire and Explosion

Hazards

Hazardous Combustion

Products

Protection of Firefighters

No data available

No special protective actions for fire-fighters are anticipated.

No unusual fire or explosion hazards noted.

Section 6 - Accidental Release Measures

Personal Precautions

Emergency Procedures
Environmental Precautions

- Ventilate the area with fresh air.

Keep unnecessary personnel away.

- Avoid release to the environment. Avoid discharge into drains, water courses or

onto the ground.

Containment/Clean-up

Measures

 Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container.

Dispose of collected material as soon as possible.

Prohibited Materials - None listed

Section 7 - Handling and Storage

Handling

Do not breathe dust/fume/gas/mist/vapors/spray. Granules are not respirable. Dust generated during handling may contain respirable material. Roofing granules should not be conveyed pneumatically, via screw conveyors, or used as a sand blasting media. These uses can cause coating and base mineral attrition which may lead to increased levels of dust generation. For industrial or professional use only. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protective equipment (gloves, respirators, etc.) as required. Do not handle until all safety precautions have been read and understood.

Storage

Incompatible Materials or Ignition Sources

- Store in original tightly closed container. No special storage requirements

No Listing

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms

*** D**Q

Respiratory

An exposure assessment may be needed to decide if a respirator is required. If a
respirator is needed, use respirators as part of a full respiratory protection program.
Based on the results of the exposure assessment, select from the following
respirator type(s) to reduce inhalation exposure:

Half face piece or full face piece air-purifying respirator suitable for particulates

Eye/Face

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
 Safety Glasses with side shields

Hands

Skin/Body

General Industrial Hygiene Considerations

Engineering Measures/Controls

- Wear appropriate chemical resistant gloves.

- Wear suitable protective clothing.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide local exhaust ventilation at transfer points. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits/Guidelines - Refer to listed exposure limits in state information of this section.

Exposure Limits/Guidelines							
	Result	ACGIH	NIOSH	OSHA	Other		
Titanium Dioxide	TWAs	TWA:10 mg/m3		TWA(as total dust):15 mg/m3	A4		
Quartz (a component of Dacite Porphyry)	TWAs	TWA(respirable fraction):0.025 mg/m3		TWA concentration(as total dust):0.3 mg/m3;TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.)	A2		
Petroleum Distillates	TWAs			TWA:2000 mg/m3(500 ppm)			
Paraffin oil	TWAs			TWA(as mist):5 mg/m3			

Section 9 - Physical and Chemical Properties

Physical Form - Solid Granules

Appearance/Description - White

Color: White		Odor: Slight Oily Odor	Odor: Slight Oily Odor			
Taste: No data available.		Odor Threshold: NDA	Odor Threshold: NDA			
Boiling Point:	N/A	Vapor Pressure:	N/A			
Melting Point:	N/A	Vapor Density:	N/A			
Specific Gravity/Relative	2.55 - 2.70	Evaporation Rate:	N/A			
Density:						
Auto-Ignition Temperature	> N/A	VOC (Wt.):	N/A			
Bulk Density:	NDA	VOC (Vol.):	N/A			
Solvent Solubility:	NDA	Flash Point:	N/A			
Viscosity:	NDA	Flash Point Test Type:	N/A			

Section 10 - Stability and Reactivity

Stability - Material is stable under normal conditions.

Hazardous Polymerization - Hazardous polymerization not indicated.

Conditions to Avoid - None Known.
Incompatible Materials - None Known

Hazardous Decomposition Products - No hazardous decomposition products are known.

Section 11 - Toxicological Information

Acute Toxicity					
Name	Route	Species	Value		
Dacite Porphyry (composition varies naturally, typically contains feldspars, amphibole, magnetite, ilmenite, biotite and epidote)	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg		
Quartz (a component of Dacite Porphyry)	Dermal		LD50 estimated to be > 5,000 mg/kg		
Ceramic Coating	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg		

Titanium Dioxide		Inhalation- Dust/Mist (4 hours)		Rat		LC50 > 6.82 mg/l
Titanium Dioxide		Ingestion		Rat		LD50 > 10,000 mg/kg
Carcinogenicity						
Name Rou		te Specie		Species		Value
Quartz (a component of Dacite Porphyry)	Inhalation		Human and animal		ıal	Carcinogenic
Ceramic Coating Inhalation		tion Multiple animal species		ecies	Some positive data exist, but the data are not sufficient for classification	
Titanium Dioxide Ingest		tion	on Multiple animal species		ecies	Not carcinogenic
Titanium Dioxide Inhala		ation		Rat		Carcinogenic
Oil	Dermal		Mouse			Some positive data exist, but the data are not sufficient for classification

IARC Monographs. Overall Evaluation of

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Aspiration hazard

Chronic effects

2B Possibly carcinogenic to humans.

1 classifiable as to carcinogenicity to humans.

Data not sufficient for classification

No Data Available

Inhalation - Silicosis. Titanium Dioxide - Pulmonary Fibrosis, Respiratory

Oil - Aspiration Hazard

Prolonged inhalation may be harmful.

Section 12 - Ecological Information

Ecological Fate

Persistence/Degradability

Bioaccumulation Potential

Mobility in Soil Other adverse effects No Data Available

No data is available on the degradability of this product.

No data available. No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

Section 13 - Disposal Considerations

Product

Dispose of contents/ container in accordance with the

local/regional/national/international regulations. Not Regulated by RCRA in original

state.

Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label

warnings even after container is emptied.

Section 14 - Transportation Information

DOT - United States - Department of Transportation: Shipping Name: Not Regulated as Dangerous Goods

IATA – International Air Transport Association:

Shipping Name: Not Regulated as Dangerous Goods

IMO/IMDG –International Maritime Transport:

Shipping Name: Not Regulated as Dangerous Goods

Section 15 - Regulatory Information

TSCA

SARA 302 Extremely hazardous substance SARA 311/312 Hazardous SARA 313 (TRI reporting) Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List US. California Proposition 65

- The components of this product are in compliance with the chemical notification requirements of TSCA.
- Not listed.
- Immediate and Delayed Hazard
- No Data Available
- No Data Available

Silica and Titanium Dioxide is listed due to its respirable nature in powder form. As supplied and applied the titanium dioxide is bound within the product matrix and is not expected to be in a respirable form. WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Last Revision Date

Prepared By

Disclaimer/Statement of Liability

- 3/31/2016
- GG Inc.
- 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 user's responsibility to verify the suitability and completeness of such information for particular use. APOC does not accept liability for any loss or damage that may occur from the use of this information.