

Gardner-Gibson Inc.

Version No: 4.7

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 11/18/2022 Print Date: 11/18/2022 L.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	APOC 243 Advanced Elastomeric White Roof Coating
Synonyms	Elasto-Kool White (10-Year) Elastomeric Roof Coating; APOC Elasto-Kool White Siliconized Elastomeric Roof Coating
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Flexible Roof Coating

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Gardner-Gibson Inc.
Address	4161 East 7th Avenue Tampa FL United States
Telephone	1-813-248-2101
Fax	Not Available
Website	www.icpgroup.com
Email	sds@icpgroup.com

Emergency phone number

Emergency priorie namber	
Association / Organisation	ChemTel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

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NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Specific Target Organ Toxicity - Repeated Exposure Category 2, Skin Corrosion/Irritation and Serious Eye Damage/Eye Irritation Category 2 (Skin)/2B (Eye), Carcinogenicity Category 2
Label elements	
Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
H373	May cause damage to organs through prolonged or repeated exposure.
H315+H320	Causes skin and eye irritation.

H351 Suspected of causing cancer.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

• • • •	
P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P280	Wear protective gloves and protective clothing.
P202	Do not handle until all safety precautions have been read and understood.

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P314	Get medical advice/attention if you feel unwell.

Precautionary statement(s) Storage

Store locked up.

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

P405

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
13463-67-7*	5-10	Titanium Dioxide Ti02
1317-65-3*	15-40	limestone
14808-60-7*	0.1-1	silica crystalline - quartz
1332-58-7	1-5	kaolin

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

SECTION 4 First-aid measures

Description of first aid measures

•			
Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 		
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.		
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 		
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 		

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

Continued...

APOC 243 Advanced Elastomeric White Roof Coating

Extinguishing media

- Water spray or fog.
- ► Foam.
- Dry chemical powder.
- BCF (where regulations permit).Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	1

None known.

Special protective equipment and precautions for fire-fighters

Т

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive. May emit poisonous fumes.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling		
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to contairers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. 	

	 Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Titanium Dioxide Ti02	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Titanium Dioxide Ti02	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Marble- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Marble- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Limestone- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Limestone- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Calcium Carbonate- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	limestone	Calcium Carbonate- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	limestone	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	limestone	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Marble - respirable	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Limestone - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Marble - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - respirable	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	limestone	Limestone - respirable	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica crystalline - quartz	Quartz - respirable	0.05 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	silica crystalline - quartz	Silica: Crystalline: Quartz (Respirable)	10 (%SiO2+2) mg/m3 / 250 (%SiO2+5) mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Silica, crystalline (as respirable dust)	0.05 mg/m3	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	kaolin	Kaolin- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	kaolin	Kaolin- Total dust	15 mg/m3	Not Available	Not Available	Not Available

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	kaolin	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	kaolin	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	kaolin	Kaolin - total	10 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	kaolin	Kaolin - respirable	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3	
Titanium Dioxide Ti02	30 mg/m3	330 mg/m3		2,000 mg/m3	
silica crystalline - quartz	0.075 mg/m3	33 mg/m3		200 mg/m3	
Ingredient	Original IDLH	Original IDLH		Revised IDLH	
Titanium Dioxide Ti02	5,000 mg/m3	5,000 mg/m3		Not Available	
limestone	Not Available	Not Available		ilable	
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	25 mg/m3 / 50 mg/m3		ilable	
kaolin	Not Available	Not Available		ilable	

MATERIAL DATA

For kaolin:

Kaolin dust appears to have fibrogenic potential even in the absence of crystalline silica. Kaolinosis can exist as simple and complicated forms with the latter often associated with respiratory symptoms. Crystalline silica enhances the severity of the pneumoconiosis.

The concentration of respirable dust for application of this limit is to be determined from the fraction that penetrates a separator whose size collection efficiency is described by a cumulative lognormal function with a median aerodynamic volume of 4.0 um (+-) 0.3 um and with a geometric standard deviation of 1.5 um (+-) 0.1 um, i.e.. less than 5 um.

The TLV-TWA is thought to be sufficiently low to prevent changes in pre- employment chest X-ray findings in exposed employees, in some cases following decades of exposure. The limit is thought to be protective against disabling pneumoconiosis.

WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS

The International Agency for Research on Cancer (IARC) has classified occupational exposures to **respirable** (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.

* Millions of particles per cubic foot (based on impinger samples counted by light field techniques).

NOTE : the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.

Animals exposed by inhalation to 10 mg/m3 titanium dioxide show no significant fibrosis, possibly reversible tissue reaction. The architecture of lung air spaces remains intact. • The label on a package containing 1% or more of titanium oxide with aerodynamic diameter equal or below 10 microns shall bear the following statement: EUH211 "Warning! Hazardous respirable droplets may be formed when sprayed. Do NOT breathe spray or mist

• The label on the packaging of solid mixtures containing 1% or more of titanium dioxide shall bear the following statement: EUH212" "Warning! Hazardous respirable dust may be formed when used. Do not breathe dust"

In addition, the label on the packaging of liquid and solid mixtures not intended for the general public and not classified as hazardous which are labelled EUH211 or EU212 shall bear statement EUH210: "Safety data sheet available on request."

Exposure controls

	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job acti	e independent of worker interactio	ns to provide this high level of	0 0
Appropriate engineering	Enclosure and/or isolation of emission source which keeps "adds" and "removes" air in the work environment. Ventilati ventilation system must match the particular process and c Employers may need to use multiple types of controls to pr Local exhaust ventilation usually required. If risk of overexp protection. Supplied-air type respirator may be required in An approved self contained breathing apparatus (SCBA) m Provide adequate ventilation in warehouse or closed storag velocities which, in turn, determine the "capture velocities"	a selected hazard "physically" aw ion can remove or dilute an air cor hemical or contaminant in use. event employee overexposure. posure exists, wear approved resp special circumstances. Correct fit i ay be required in some situations. ge area. Air contaminants generate	ray from the worker and vent ntaminant if designed properl irator. Correct fit is essential is essential to ensure adequa ed in the workplace possess	y. The design of a to obtain adequate ate protection. varying "escape"
controls	Type of Contaminant:			Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank	(in still air).		0.25-0.5 m/s (50-100 f/min.)
	aerosols, fumes from pouring operations, intermittent con drift, plating acid fumes, pickling (released at low velocity		ransfers, welding, spray	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	, conveyer loading, crusher dusts,	gas discharge (active	1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	enerated dusts (released at high in	nitial velocity into zone of	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range]	

	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min) for extraction of solvents generated	ce away from the opening of a simple extraction pipe. Velocity generate cases). Therefore the air speed at the extraction point should be a sing source. The air velocity at the extraction fan, for example, should in a tank 2 meters distant from the extraction point. Other mechanic sus, make it essential that theoretical air velocities are multiplied by far	adjusted, l be a minimum al consideratio
Personal protection			
Eye and face protection	the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and ar their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou	lenses may absorb and concentrate irritants. A written policy docum reated for each workplace or task. This should include a review of le account of injury experience. Medical and first-aid personnel should available. In the event of chemical exposure, begin eye irrigation imr d be removed at the first signs of eye redness or irritation - lens shou ands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/N	ens absorption be trained in mediately and uld be removed
Skin protection	See Hand protection below		
Hands/feet protection	manufacturer. Where the chemical is a preparation of seve and has therefore to be checked prior to the application. The exact break through time for substances has to be obter making a final choice. Personal hygiene is a key element of effective hand care. Of washed and dried thoroughly. Application of a non-perfurme Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may occu- minutes according to EN 374, AS/NZS 2161.10.1 or national When only brief contact is expected, a glove with a proted 374, AS/NZS 2161.10.1 or national equivalent) is recomme . Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are . Excellent when breakthrough time > 20 min . Fair when breakthrough time < 20 min . Fair when breakthrough time < 20 min . Foor when glove material degrades For general applications, gloves with a thickness typically g It should be emphasised that glove thickness is not necess efficiency of the glove will be dependent on the exact comp consideration of the task requirements and knowledge of b Glove thickness may also vary depending on the glove mar data should always be taken into account to ensure selection Note: Depending on the activity being conducted, gloves of . Thinner gloves (down to 0.1 mm or less) may be required likely to give short duration protection and would normally b . Thicker gloves (up to 3 mm or more) may be required whe puncture potential	e. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). , a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes a lequivalent) is recommended. ion class of 3 or higher (breakthrough time greater than 60 minutes a nded. and this should be taken into account when considering gloves for low rated as: reater than 0.35 mm, are recommended. Inity a good predictor of glove resistance to a specific chemical, as the sistion of the glove material. Therefore, glove selection should also be akthrough times. ufacturer, the glove type and the glove model. Therefore, the manufarent of the most appropriate glove for the task. varying thickness may be required for specific tasks. For example: where a high degree of manual dexterity is needed. However, these selection should also the solution of the glove of manual dexterity is needed.	ated in advance asserved when should be eater than 240 according to Et ong-term use. e permeation re based on acturers techni- gloves are only is abrasion or
Dady protection			
Body protection	See Other protection below		
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. 		

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: **"Forsberg Clothing Performance Index".** The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: APOC 243 Advanced Elastomeric White Roof Coating

Continued...

APOC 243 Advanced Elastomeric White Roof Coating

Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
TEFLON	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Light sensitive.		
Physical state	Liquid	Relative density (Water = 1)	1.42
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>119	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	<50

SECTION 10 Stability and reactivity

Reactivity	See section 7
 Chemical stability Product is considered stable. Hazardous polymerisation will not occur. 	
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

ormation on toxicological e	ffects
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. On the basis, primarily, or animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects, in respect of the valiable information, however, there presently exists interactive anticing a satisfactory assessment. The health hazards associated with bernorite, kaolin, and common day, which are commercially inportant day produces, assessment. The biological effects of clay minerals are influenced by their mineral composition and particle size. The decreasing mark order of the potencies or quartz, kaolinia, and morthomolicito to produce tung damage is constraint with their horons relative active surface areas and surface demissity. Clays are chemically all described as aluminoalicitas; these are further classified as bentonte, kaolin and common clays. Bentonite is a rock formed of highly colloidial and patient classy composed mainly of morthomolicine, a cady mineral of the smecralite group. Kaolin or china clay is a mixture of different minerals. Its main component is kaolinita; in addition, it frequently contains quartz, mica, feldspar, Illia, and morthomolicinal. The main components of common clay and shale are illite and chlorite. Illite is also a component of ball clays. Illite closes were assess to effect only mild nonspecific tissue changes, which are similar to those that have been described in the spectrum of changes of the "small airways mineral dust disease" (nodular peribronial dust accumulations containing erfacile material [morthomilicing hassociation with limited information on period of the studies, radiological abnormalites have also been reported Long-term coposure to kadin may lead to a relatively being neuronconisis, in an exposure-infaled fashion. Inform as kadinonis, Deterioratio or information the second rule is a relatively being neuronconisis, in an exposure-infaled fashion. Information on period of lang function th

APOC 243 Advanced	TOXICITY	IRRITATION	
Elastomeric White Roof Coating	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (hamster) LD50: >=10000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
Titanium Dioxide Ti02	Inhalation(Rat) LC50: >2.28 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50; >=2000 mg/kg ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
limestone	Oral (Rat) LD50; 6450 mg/kg ^[2]	Skin (rabbit): 500 mg/24h-moderate	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Inhalation (Human)LCLo: 0.3 mg/m3/10Y ^[2]	Not Available	
silica crystalline - quartz	Inhalation (Human)TCLo: 16 mppcf*/8H/17.9Y ^[2]		
	Inhalation (Rat)TCLo: 50 mg/m3/6H/71W ^[2]		
kaalin	TOXICITY	IRRITATION	
kaolin	Not Available	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances specified data extracted from RTECS - Register of Toxic Effec	- Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise	

APOC 243 Advanced Elastomeric White Roof Coating	For trainium dioxide: Humans can be exposed to titanium dioxide via inhalation, ingestion or dermal contact. In human lungs, the clearance kinetics of titanium dioxide is poorly characterized relative to that in experimental animals. (General particle characteristics and host factors that are considered to affect deposition and retention patterns of inhaled, poorly soluble particles such as titanium dioxide are summarized in the monograph on carbon black.) With regard to inhaled trainum dioxide, human data are mainly available from case reports that showed deposites of titanium dioxide in lung tissue as well as in hymph nodes. A single clinical study of oral ingestion of fine titanium dioxide soft particles only penetrate into the outermost layers of the stratum corneum, suggesting that healthy skin is an effective barrier to titanium dioxide. There are no studies on penetration of titanium dioxide in compromised skin. Respiratory fedos that have been observed among groups of titanium dioxide-exposed workers include decline in lung function, pleural disease with plaques and pleural thickening, and mild fibrotic changes. However, the workers in these studies were also exposed to asbestos and/or silica. No data were available on genotoxic effects in titanium dioxide-exposed humans. Many data on deposition, retention and clearance of titanium dioxide in experimental animals are available for the inhalation route. Titanium dioxide inhalation studies showed differences — both for normalized pulmonary burden (deposited mass per dry lung, mass per body weight) and clearance kinetics — among rodent species including rats of different size, age and strain. Clearance of inhaled titanium dioxide is also alfected by pre-exposure to gaseous pollutants to co-exposure to cytoxic and naftermesci indoser stee or clearance kinetics and high particle burden have been implicated in the higher toxic and inflammatory lung responses to intratecheally instilled vis inhaled titanium dioxide are more solwy cleared than
limestone	Eye (rabbit) 0.75: mg/24h - No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
silica crystalline - quartz	WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for

Continued

	the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours. * Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE : the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.		
KAOLIN	No significant acute toxicological data identified in liter for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of The expected acute oral toxicity of bentonite in humar retrocorneal abscess from eye exposure were reporte In a 33 day dietary (2 and 6%) and a 90 day dietary (1 biochemical parameters and electrolytic composition of metabolism. However, larger amounts caused decrea phosphorus metabolism. Bentonite did not cause fibrosis after 1 year exposure were intratracheally instilled at 5, 15 and 45 mg/rat, do bronchial asthma in workers at a processing plant in L Ingestion of bentonite without adequate liquids may re Hypokalaemia and microcytic iron-deficiency anaemia cause myositis.	clays formed by crystallisation of vitre is is very low (LD50>15 g/kg). Howev d when bentonite had been used as a , 3 and 5%) studies in chickens, no cl of the blood. Repeat dietary administra sed growth, muscle weakness, and de of 60 mg dust (<5 um) in a rat study. bee-related fibrosis was observed. Be JSA.	er, severe anterior segment inflammation, uveitis and a prophypaste. hanges in behaviour, overall state, clinical and ation of bentonite did not affect calcium or phosphorus eath with marked changes in both calcium and However, in a second rat study, where 5 um particles ntonite clay dust is believed to be responsible for s.
Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin	×	STOT - Repeated Exposure	✓

Legend:

Aspiration Hazard

🗙 – Data either not available or does not fill the criteria for classification ✔ – Data available to make classification

×

SECTION 12 Ecological information

sensitisation Mutagenicity

×

APOC 243 Advanced	Endpoint	Test Duration (hr)	Species	Value	Source
Elastomeric White Roof Coating	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	<1.1-9.6	7
	EC50	72h	Algae or other aquatic plants	3.75-7.58mg/l	4
Titanium Dioxide Ti02	EC50	48h	Crustacea	1.9mg/l	2
	NOEC(ECx)	504h	Crustacea	0.02mg/l	4
	LC50	96h	Fish	1.85-3.06mg/l	4
	EC50	96h	Algae or other aquatic plants	179.05mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
limestone	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
kaolin	Not Available	Not Available	Not Available	Not Available	Not Available

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Titanium Dioxide Ti02	HIGH	HIGH

Bioaccumulative potential

Ingredient

Bioaccumulation

Ingredient	Bioaccumulation
Titanium Dioxide Ti02	LOW (BCF = 10)
Mobility in soil	
Ingredient	Mobility
Titanium Dioxide Ti02	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. b Do NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. It may be necessary to collect all wash water for recycling options. Consult contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO
Land transport (DOT): NOT REC	GULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Titanium Dioxide Ti02	Not Available
limestone	Not Available
silica crystalline - quartz	Not Available
kaolin	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
Titanium Dioxide Ti02	Not Available
limestone	Not Available
silica crystalline - quartz	Not Available
kaolin	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

Titanium Dioxide Ti02 is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List	US DOE Temporary Emergency Exposure Limits (TEELs)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active- Inactive) Rule
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US NIOSH Carcinogen List
Monographs - Group 2B: Possibly carcinogenic to humans	US NIOSH Recommended Exposure Limits (RELs)
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	US OSHA Permissible Exposure Limits (PELs) Table Z-1
Manufactured Nanomaterials (MNMS)	US OSHA Permissible Exposure Limits (PELs) Table Z-3
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances
US - California Proposition 65 - Carcinogens	
US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List	
US - Massachusetts - Right To Know Listed Chemicals	
limestone is found on the following regulatory lists	
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	US OSHA Permissible Exposure Limits (PELs) Table Z-1
Manufactured Nanomaterials (MNMS)	US OSHA Permissible Exposure Limits (PELs) Table Z-3
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
Air Pollutants Other Than PM-2.5	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US - Massachusetts - Right To Know Listed Chemicals	
US NIOSH Recommended Exposure Limits (RELs)	
silica crystalline - quartz is found on the following regulatory lists	
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	US NIOSH Carcinogen List US NIOSH Recommended Exposure Limits (RELs)
Chemical Footprint Project - Chemicals of High Concern List	•
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US NIOSH Recommended Exposure Limits (RELs)
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	US NIOSH Recommended Exposure Limits (RELs) US OSHA Carcinogens Listing
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans US - California Proposition 65 - Carcinogens	US NIOSH Recommended Exposure Limits (RELs) US OSHA Carcinogens Listing US OSHA Permissible Exposure Limits (PELs) Table Z-1
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans US - California Proposition 65 - Carcinogens US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List	US NIOSH Recommended Exposure Limits (RELs) US OSHA Carcinogens Listing US OSHA Permissible Exposure Limits (PELs) Table Z-1 US OSHA Permissible Exposure Limits (PELs) Table Z-3
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Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Section 311/312 hazard categories	
Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None Reported

State Regulations

US. California Proposition 65

MARNING: This product can expose you to chemicals including Titanium Dioxide Ti02, silica crystalline - quartz, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (limestone)		
Canada - NDSL	No (Titanium Dioxide Ti02; silica crystalline - quartz; kaolin)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (limestone; kaolin)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

Revision Date	11/18/2022
Initial Date	01/04/2022

CONTACT POINT

PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

SDS Version Summary

Version	Date of Update	Sections Updated
3.7	11/18/2022	Disposal, Exposure Standard, Fire Fighter (fire/explosion hazard), Fire Fighter (fire incompatibility), Ingredients, Personal Protection (Respirator), Physical Properties, Storage (storage incompatibility), Synonyms

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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