

# Gardner-Gibson, Inc.

Version No: 1.3

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 241 Elastomeric White Roof Coating
Synonyms	White Elastomeric Roof Coating
Other means of identification	Not Available

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

Relevant identified uses White Reflective 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 33605 United States
Telephone	1-813-248-2101
Fax	1-813-248-6768
Website	www.icpgroup.com
Email	sds@icpgroup.com

#### Emergency phone number

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

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.

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## **APOC 241 Elastomeric White Roof Coating**

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	10-30	limestone
14808-60-7	0.1-1	silica crystalline - quartz
107-21-1	1-5	ethylene glycol

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	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
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	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

See Section 11

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

# 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	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Special protective equipment a	and precautions for fire-fighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>	

## **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

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

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

# **SECTION 7 Handling and storage**

Precautions for safe handling		
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> </ul>	

	<ul> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

## SECTION 8 Exposure controls / personal protection

## **Control parameters**

## Occupational Exposure Limits (OEL)

NGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	Titanium Dioxide Ti02	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	Titanium Dioxide Ti02	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Calcium Carbonate- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Limestone- Total dust	15 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Marble- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Calcium Carbonate- Total dust	15 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Limestone- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-1	limestone	Marble- Total dust	15 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-3	limestone	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure .imits (PELs) Table Z-3	limestone	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - total	10 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - respirable	5 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - respirable	5 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Marble - respirable	5 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Limestone - respirable	5 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Calcium carbonate - total	10 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Marble - total	10 mg/m3	Not Available	Not Available	Not Available
JS NIOSH Recommended Exposure Limits (RELs)	limestone	Limestone - total	10 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure imits (PELs) Table Z-1	silica crystalline - quartz	Quartz - respirable	0.05 mg/m3	Not Available	Not Available	Not Available
JS OSHA Permissible Exposure imits (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

Continued...

Source	Ingredient	Material name		TWA		STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Silica, crystalline (as respira dust)	able	0.05 mg/m3		Not Available	Not Available	Ca; See Appendix A
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	Ethylene glycol		Not Available		Not Available	Not Available	See Appendix D
Emergency Limits								
Ingredient	TEEL-1		TEEL-2	2		TEEL-3		
Titanium Dioxide Ti02	30 mg/m3		330 mg	g/m3		2,000 mg/m	13	
limestone	45 mg/m3		210 mg	g/m3		1,300 mg/m	13	
silica crystalline - quartz	0.075 mg/m3	0.075 mg/m3 33 mg		'm3		200 mg/m3		
ethylene glycol	30 ppm		150 pp	m		900 ppm		
Ingredient	Original IDLH				Revised	IDLH		
Titanium Dioxide Ti02	5,000 mg/m3	5,000 mg/m3			Not Ava	Not Available		
limestone	Not Available	Not Available			Not Ava	Not Available		
silica crystalline - quartz	25 mg/m3 / 50 mg/n	25 mg/m3 / 50 mg/m3			Not Ava	ilable		
ethylene glycol	Not Available	Not Available			Not Ava	ilable		

#### MATERIAL DATA

#### WARNING: For inhalation exposure ONLY:

This substance has been classified by the ACGIH as A2 Suspected Human Carcinogen

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.

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits. ORGS represent an 8-hour time-weighted average unless specified otherwise.

CR = Cancer Risk/10000; UF = Uncertainty factor:

TLV believed to be adequate to protect reproductive health:

LOD: Limit of detection

Toxic endpoints have also been identified as:

D = Developmental; R = Reproductive; TC = Transplacental carcinogen

Jankovic J., Drake F.: A Screening Method for Occupational Reproductive

American Industrial Hygiene Association Journal 57: 641-649 (1996)

Because the margin of safety of the quartz TLV is not known with certainty and given the associated link between silicosis and lung cancer it is recommended that quartz concentrations be maintained as far below the TLV as prudent practices will allow.

Exposure to respirable crystalline silicas (RCS) represents a significant hazard to workers, particularly those employed in the construction industry where respirable dusts of of cement and concrete are common. Cutting, grinding and other high speed processes, involving their finished products, may further result in dusty atmospheres. Bricks are also a potential source of RCSs under such circumstances

It is estimated that half of the occupations, involved in construction work, are exposed to levels of RCSs, higher than the current allowable limits. Beaudry et al: Journal of Occupational and Environmental Hygiene 10: 71-77; 2013

for ethylene glycol:

Odour Threshold: 25 ppm

NOTE: Detector tubes for ethylene glycol, measuring in excess of 10 mg/m3, are commercially available.

It appears impractical to establish separate TLVs for ethylene glycol vapour and mists. Atmospheric concentration that do not cause discomfort are unlikely to cause adverse effects. The TLV-C is thought to be protective against throat and respiratory irritation and headache reported in exposed humans. NIOSH has not established a limit for this substance due to the potential teratogenicity associated with exposure and because respiratory irritation reported at the TLV justified a lower value

#### Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.				
	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 container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)			
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)			

very high rapid air motion).	noraco uusis (reieaseu al nigh initiai Velucity	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 contaminal 1-2 m/s (200-400 f/min) for extraction of solvents generated	ple cases). Therefore the air speed at the extr ting source. The air velocity at the extraction fa I in a tank 2 meters distant from the extraction	action point should be adjusted, an, for example, should be a minimum point. Other mechanical consideration	
<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed i a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>			
See Hand protection below			
and has therefore to be checked prior to the application. The exact break through time for substances has to be obta- making a final choice. Personal hygiene is a key element of effective hand care. G washed and dried thoroughly. Application of a non-perfume Suitability and durability of glove type is dependent on usag 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 nationa . When only brief contact is expected, a glove with a protect 374, AS/NZS 2161.10.1 or national equivalent) is recomme . Some glove polymer types are less affected by movement . 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 . Poor 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 br Glove thickness may also vary depending on the glove mar data should always be taken into account to ensure selectic 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 when puncture potential Gloves must only be worn on clean hands. After using glove moisturiser is recommended. . Wear chemical protective gloves, e.g. PVC.	ained from the manufacturer of the protective of Sloves must only be worn on clean hands. After d moisturiser is recommended. ge. Important factors in the selection of gloves a 374, US F739, AS/NZS 2161.1 or national ere r, a glove with a protection class of 5 or higher al equivalent) is recommended. tion class of 3 or higher (breakthrough time gr nded. t and this should be taken into account when or e rated as: reater than 0.35 mm, are recommended. arily a good predictor of glove resistance to a osition of the glove material. Therefore, glove reakthrough times. varying thickness may be required for specific where a high degree of manual dexterity is ne ere there is a mechanical (as well as a chemic	ploves and has to be observed when er using gloves, hands should be include: quivalent). • (breakthrough time greater than 240 eater than 60 minutes according to EN considering gloves for long-term use. specific chemical, as the permeation selection should also be based on . Therefore, the manufacturers technic c tasks. For example: eded. However, these gloves are only ad of. al) risk i.e. where there is abrasion or	
Wear safety footwear or safety gumboots, e.g. Rubber			
See Other protection below			
See Other protection below			
▶ Overalls.			
	<ul> <li>very high rapid air motion).</li> <li>Within each range the appropriate value depends on:</li> <li>Lower end of the range <ol> <li>Room air currents minimal or favourable to capture</li> <li>Contaminants of low toxicity or of nuisance value only.</li> <li>Intermittent, low production.</li> <li>Large hood or large air mass in motion</li> </ol> </li> <li>Simple theory shows that air velocity falls rapidly with distar with the square of distance from the extraction point (in sim accordingly, after reference to distance from the extraction apparamore when extraction systems are installed or used.</li> <li>Wiew of the extraction of solvents generated producing performance deficits within the extraction apparamore when extraction systems are installed or used.</li> <li>Chemical goggies.</li> <li>Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be radiadsorption 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 a clean environment only after workers have washed h national equivalent]</li> <li>See Hand protection below</li> <li>The selection of suitable gloves does not only depend on th manufacturer. Where the chemical is a preparation of seven and has therefore to be checked prior to the application. The exact break through time for substances has to be obta making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. O, washed and dired thoroughly. Application of a non-perfume Suitability and durability of glove type is dependent on usage i frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dxettrity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EM.</li> <li>When only bief contact is expected, a glove with a protect 374, ASNZS 2161.10.1 or national equivalent) is recomme . Some glove pubmer types are less affected by movemen e. Contami</li></ul>	Within each range the appropriate value depends on:           Lewer 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           Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction for during performance deficits with the extraction appratus, make it essential that theoretical air veloc more when extraction systems are installed or used.           Image: theory shows that air velocity within the extraction appratus, make it essential that theoretical air veloc more when extraction systems are installed or used.           Image: theory shows that air velocity within the extraction appratus, make it essential that theoretical air veloc more when extraction systems are installed or used.           Image: theory shows that air velocity bit of extraction on the extraction on the extraction on the extraction so the extraction on the extraction o	

Respiratory protection

#### 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  $\ensuremath{\textit{computer-generated}}$  selection:

APOC 241 Elastomeric White Roof Coating

Material	CPI
BUTYL	С
HYPALON	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

Type AK Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS	-	AK-PAPR-AUS / Class 1
up to 50 x ES	-	AK-AUS / Class 1	-
up to 100 x ES	-	AK-2	AK-PAPR-2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Physical stateLiquidRelative density (Water = 1)1.31OdourNot AvailablePartition coefficient n-octanol / waterNot AvailableOdour thresholdNot AvailableAuto-ignition temperature (°C)Not AvailablePH (as supplied)8Decomposition temperature (°C)Not AvailableMelting point / freezing point (°C)Not AvailableNot AvailableInitial boiling point and boiling range (°C)100-118.3Molecular weight (g/mol)Not AvailableFlash point (°C)>119.4TasteNot AvailableEvaporation rate<1 Ether = 1	
OdourNot AvailableNot AvailableNot AvailableOdour thresholdNot AvailableAuto-ignition temperature (°C)Not AvailablepH (as supplied)8Decomposition temperature (°C)Not AvailableMelting point / freezing point (°C)Not AvailableViscosity (cSt)Not AvailableInitial boiling point and boiling range (°C)100-118.3Molecular weight (g/mol)Not AvailableFlash point (°C)>119.4TasteNot AvailableEvaporation rate<1 Ether = 1Explosive propertiesNot AvailableFlammabilityNot ApplicableOxidising propertiesNot Available	
PH (as supplied)       8       Decomposition temperature (°C)       Not Available         Melting point / freezing point (°C)       Not Available       Viscosity (cSt)       Not Available         Initial boiling point and boiling range (°C)       100-118.3       Molecular weight (g/mol)       Not Available         Flash point (°C)       >119.4       Taste       Not Available         Evaporation rate       <1 Ether = 1	
pH (as supplied)       8       temperature (°C)       Not Available         Melting point / freezing point (°C)       Not Available       Viscosity (cSt)       Not Available         Initial boiling point and boiling range (°C)       100-118.3       Molecular weight (g/mol)       Not Available         Flash point (°C)       >119.4       Taste       Not Available         Evaporation rate       <1 Ether = 1	
Initial boiling point and boiling range (°C)     Not Available       Initial boiling point and boiling range (°C)     100-118.3       Flash point (°C)     >119.4       Taste     Not Available       Evaporation rate     <1 Ether = 1       Flammability     Not Applicable       Oxidising properties     Not Available	
range (°C)     100-118.3     Molecular weight (grmoi)     Not Available       Flash point (°C)     >119.4     Taste     Not Available       Evaporation rate     <1 Ether = 1     Explosive properties     Not Available       Flammability     Not Applicable     Oxidising properties     Not Available	
Evaporation rate       <1 Ether = 1	
Flammability     Not Applicable     Oxidising properties     Not Available	
Surface Tension (dun/cm or	
Upper Explosive Limit (%) Not Available Surface Tension (dyn/cm or	
Not Available mN/m)	
Lower Explosive Limit (%)         Not Available         Volatile Component (%vol)         <60	
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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5
	See section 5

## **SECTION 11 Toxicological information**

## Information on toxicological effects

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 <b>NOT</b> 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	Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.			
ABOO 244 Electomorie Wikite	τοχιςιτγ	IRRITATION		
APOC 241 Elastomeric White Roof Coating	Not Available	Not Available		
	τοχιςιτγ	IRRITATION		
	dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
Titanium Dioxide Ti02	Inhalation(Rat) LC50: >2.28 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	Oral (Rat) LD50; >=2000 mg/kg <sup>[1]</sup>			
	τοχιςιτγ	IRRITATION		
	Oral (Rat) LD50; 6450 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
limestone		Skin (rabbit): 500 mg/24h-moderate		
		Skin: no adverse effect observed (not irritating)[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
silica crystalline - quartz	Oral (Rat) LD50; 500 mg/kg <sup>[2]</sup>	Not Available		
	τοχιςιτγ	IRRITATION		
	dermal (mouse) LD50: >3500 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg/1h - mild		
	Oral (Rat) LD50; >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 12 mg/m3/3D		
		Eye (rabbit): 1440mg/6h-moderate		
ethylene glycol		Eye (rabbit): 500 mg/24h - mild		
		Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
		Skin (rabbit): 555 mg(open)-mild		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substances - , specified data extracted from RTECS - Register of Toxic Effect of	Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise		

	Evo (robbit) 0.75; ma/24b. No ovidance of excitance is proportion. No ovidance of mutance is a target serie official
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 dermattilis 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	<ul> <li>WARNING: For inhalation exposure <u>ONLY</u>: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS</li> <li>The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (&lt;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.</li> <li>Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.</li> <li>* Millions of particles per cubic foot (based on impinger samples counted by light field techniques).</li> <li>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.</li> </ul>
ETHYLENE GLYCOL	<ul> <li>Terrate Lehal Dose (human) 100 mit, PTECS quoted by Oncil Substance is reproductive effector in rats (birth defects). Muscapient to rat cells, for drivine glycol is quickly and extensively absorbed intrough the guaronitestima in tract. Limited information suggests that it is also absorbed intrough the guaronitestima intervent in the guaronitestima intervent int</li></ul>

	laboratory studies provide consistently negative genotoxicity results for ethylene glycol.		
Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
		l egend: V - Data either r	not available or does not fill the criteria for classification

## **SECTION 12 Ecological information**

	Endpoint	Test Duration (hr)	Species	Value	Source
APOC 241 Elastomeric White Roof Coating	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	BCF	1008h	Fish	<1.1-9.6	7
	EC50	72h	Algae or other aquatic plants	3.75-7.58mg	1 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	1 4
	EC50	96h	Algae or other aquatic plants	179.05mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sour
	NOEC(ECx)	1h	Fish	4-320mg/l	4
limestone	EC50	72h	Algae or other aquatic plants	>14mg/l	2
	LC50	96h	Fish	>165200mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	Not Available	Algae or other aquatic plants	6500-7500mg/l	1
ethylene glycol	EC50	48h	Crustacea	>100mg/l	2
	LC50	96h	Fish	>10000mg/l	1
	EC50	96h	Algae or other aquatic plants	6500-13000mg	1

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Titanium Dioxide Ti02	HIGH	HIGH
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
Titanium Dioxide Ti02	LOW (BCF = 10)
ethylene glycol	LOW (BCF = 200)

## Mobility in soil

Ingredient	Mobility
Titanium Dioxide Ti02	LOW (KOC = 23.74)
ethylene glycol	HIGH (KOC = 1)

### **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate:         <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be precycled 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. Shell 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.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>It may be necessary to collect all wash water for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

#### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO

#### Land transport (DOT): NOT REGULATED 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
ethylene glycol	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
ethylene glycol	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

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 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

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

- US DOE Temporary Emergency Exposure Limits (TEELs)
- US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Carcinogen List

- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

limestone is found on the following regulatory lists

Continued...

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 DOE Temporary Emergency Exposure Limits (TEELs) US NIOSH Recommended Exposure Limits (RELs) silica crystalline - quartz is found on the following regulatory lists US NIOSH Carcinogen List Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US NIOSH Recommended Exposure Limits (RELs) Monographs US OSHA Carcinogens Listing International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US OSHA Permissible Exposure Limits (PELs) Table Z-1 Monographs - Group 1: Carcinogenic to humans US OSHA Permissible Exposure Limits (PELs) Table Z-3 US - California Proposition 65 - Carcinogens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 US TSCA Chemical Substance Inventory - Interim List of Active Substances List US - Massachusetts - Right To Know Listed Chemicals US DOE Temporary Emergency Exposure Limits (TEELs) US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens ethylene glycol is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List US Clean Air Act - Hazardous Air Pollutants US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US DOE Temporary Emergency Exposure Limits (TEELs) US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for US EPA Integrated Risk Information System (IRIS) Chemicals Causing Reproductive Toxicity` US EPCRA Section 313 Chemical List US - California Proposition 65 - Reproductive Toxicity US NIOSH Recommended Exposure Limits (RELs) US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory List US TSCA Chemical Substance Inventory - Interim List of Active Substances US - Massachusetts - Right To Know Listed Chemicals US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) Federal Regulations Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 311/312 hazard categories Flammable (Gases, Aerosols, Liquids, or Solids) No

Flammable (Gases, Aerosols, Liquids, or Solids)	NU
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)

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
ethylene glycol	5000	2270

#### 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, and ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (Titanium Dioxide Ti02; silica crystalline - quartz; ethylene glycol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
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	05/11/2022

#### CONTACT POINT

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

## SDS Version Summary

Version	Date of Update	Sections Updated
0.3	11/18/2022	Ingredients, Physical Properties

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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
EBEPH: Russian Register of Potentially Hazardous Chemical and Biological Sub

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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