

# **Jasco Pty Limited**

Chemwatch: **5413-68** Version No: **5.1** Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: 23/12/2022 Print Date: 17/08/2024 L.GHS.AUS.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

## **Product Identifier**

Product name	Pebeo Studio Gouache made in France – other colours
Chemical Name	Not Applicable
Synonyms	EN-FDS092 Studio Gouache France Cols
Chemical formula	Not Applicable
Other means of identification	Not Available

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Paints & Varnishes for artists
Relevant identified uses	Use according to manufacturer's directions.

## Details of the manufacturer or supplier of the safety data sheet

Registered company name	Jasco Pty Limited
Address	1-5 Commercial Road Kingsgrove NSW 2208 Australia
Telephone	+61 2 9807 1555
Fax	Not Available
Website	www.jasco.com.au
Email	quickinfo@jasco.com.au

## **Emergency telephone number**

Association / Organisation	Australian Poisons Centre	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	13 11 26 (24/7)	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Not Applicable

## Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

## Hazard statement(s)

Not Applicable

# Precautionary statement(s) Prevention

Not Applicable

# Precautionary statement(s) Response

Not Applicable

# Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

# **SECTION 3 Composition / information on ingredients**

# Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
2634-33-5	0-<0.05	1,2-benzisothiazoline-3-one
140-88-5	NotSpec	ethyl acrylate
9003-01-4	NotSpec	acrylic acid homopolymer
7631-86-9	NotSpec	silica amorphous
13463-67-7	NotSpec	titanium dioxide
Not Available	balance	Ingredients determined not to be hazardous
Legend:		2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - awn from C&L * EU IOELVs available

## **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	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
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>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact with the substance, by using protective equipment.
- Prevent spillage from entering drains, sewers or water courses.
- Recover product wherever possible.
- Put residues in labelled containers for disposal.
- If contamination of drains or waterways occurs, advise emergency services.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

• There is no restriction on the type of extinguisher which may be used.

• Use extinguishing media suitable for surrounding area.

## 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
---

# Advice for firefighters

Fire Fighting	<ul> <li>When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.</li> <li>When heated to extreme temperatures, (&gt;1700 deg.C) amorphous silica can fuse.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</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> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.</li> <li>When heated to extreme temperatures, (&gt;1700 deg.C) amorphous silica can fuse.</li> <li>carbon dioxide (CO2)</li> <li>silicon dioxide (SiO2)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

# **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	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> <li>Place spilled material in clean, dry, sealed container.</li> <li>Flush spill area with water.</li> </ul>
Major Spills	<ul> <li>Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite.</li> <li>The absorbent (and surface soil to a depth sufficient to remove all of the biocide) should be shovelled into a drum and treated with an 11% solution of sodium metabisulfite (Na2S2O5) or sodium bisulfite (NaHSO3), or 12% sodium sulfite (Na2SO3) and 8% hydrochloric acid (HCl).</li> <li>Glutathione has also been used to inactivate the isothiazolinones.</li> <li>Use 20 volumes of decontaminating solution for each volume of biocide, and let containers stand for at least 30 minutes to deactivate microbicide before disposal.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> <li>After clean up operations, decontaminate and launder all protective clothing</li> <li>and equipment before storing and re-using.</li> </ul>

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

# **SECTION 7 Handling and storage**

## Precautions for safe handling

Frecautions for sale handi		
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.	
	<ul> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> </ul>	
	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 containers.	
	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.	
<ul> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>		
	<ul> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>	
	Store in original containers.	
	Keep containers securely sealed.	
Other information	Store in a cool, dry, well-ventilated area.	
Other Information	<ul> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	
	<ul> <li>Protect containers against physical damage and check regularly for leaks.</li> </ul>	
	Observe manufacturer's storage and handling recommendations contained within this SDS.	

# Conditions for safe storage, including any incompatibilities

Suitable container <ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents, bases and strong reducing agents.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> </ul>

# **SECTION 8 Exposure controls / personal protection**

# **Control parameters**

## Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethyl acrylate	Ethyl acrylate	Not Available	Not Available	5 ppm / 20 mg/m3	Not Available
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Precipitated silica	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable</li> <li>dust containing no asbestos and</li> <li>&lt; 1% crystalline silica.</li> </ul>
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Silica gel	10 mg/m3	Not Available	Not Available	<ul><li>(a) This value is for inhalable</li><li>dust containing no asbestos and</li><li>&lt; 1% crystalline silica.</li></ul>
Australia Exposure Standards	silica amorphous	Precipitated silica	10 mg/m3	Not Available	Not Available	<ul><li>(a) This value is for inhalable</li><li>dust containing no asbestos and</li><li>&lt; 1% crystalline silica.</li></ul>
Australia Exposure Standards	silica amorphous	Silica gel	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable</li> <li>dust containing no asbestos and</li> <li>&lt; 1% crystalline silica.</li> </ul>
Australia Exposure Standards	silica amorphous	Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Fume (thermally generated) (respirable dust)	2 mg/m3	Not Available	Not Available	(e) Containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Diatomaceous earth (uncalcined)	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable</li> <li>dust containing no asbestos and</li> <li>&lt; 1% crystalline silica.</li> </ul>
Australia Exposure Standards	silica amorphous	Silica - Amorphous: Diatomaceous earth (uncalcined)	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable</li> <li>dust containing no asbestos and</li> <li>&lt; 1% crystalline silica.</li> </ul>
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	<ul> <li>(a) This value is for inhalable</li> <li>dust containing no asbestos and</li> <li>&lt; 1% crystalline silica.</li> </ul>

# Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
ethyl acrylate	Not Available	Not Available	Not Available
silica amorphous	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	120 mg/m3	1,300 mg/m3	7,900 mg/m3

Ingredient	TEEL-1	TEEL-2		TEEL-3
silica amorphous	45 mg/m3	500 mg/m3		3,000 mg/m3
silica amorphous	18 mg/m3	ng/m3 740 mg/m3		4,500 mg/m3
titanium dioxide	30 mg/m3	330 mg/m3		2,000 mg/m3
Ingredient	Original IDLH		Revised IDLH	
1,2-benzisothiazoline-3-one	Not Available		Not Available	
ethyl acrylate	300 ppm		Not Available	
acrylic acid homopolymer	Not Available		Not Available	
silica amorphous	3,000 mg/m3		Not Available	
titanium dioxide	5,000 mg/m3		Not Available	

#### **Occupational Exposure Banding**

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
1,2-benzisothiazoline-3-one	E ≤ 0.01 mg/m <sup>3</sup>			
acrylic acid homopolymer	E ≤ 0.01 mg/m <sup>3</sup>			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

#### MATERIAL DATA

NOTE D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed on Annex I

When they are placed on the market in a non-stabilised form, the label must state the name of the substance followed by the words "non-stabilised" European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

#### **Exposure controls**

Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</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 in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Natural latex.</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>Butyl rubber gloves</li> <li>Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### 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:

Pebeo Studio Gouache made in France - other colours

#### **Respiratory protection**

Type A 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.

BUTYL	A
PVA	А
TEFLON	А
BUTYL/NEOPRENE	С
VITON/NEOPRENE	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.

#### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® Solvex® 37-675
DermaShield™ 73-711
MICROFLEX® 63-864
MICROFLEX® 73-847
MICROFLEX® 93-244
MICROFLEX® 93-252
MICROFLEX® 93-260
MICROFLEX® 93-843
MICROFLEX® 93-833
MICROFLEX® Blaze® N48

The suggested gloves for use should be confirmed with the glove supplier.

Appearance Paste; mixes with water.

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-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 state	Non Slump Paste	Relative density (Water = 1)	1.6
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.3	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 Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	14.10

## **SECTION 10 Stability and reactivity**

Continued...

## Pebeo Studio Gouache made in France – other colours

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

# **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. 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	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body 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.		
Pebeo Studio Gouache	τοχιζιτγ	IRRITATION	
made in France – other colours	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
1,2-benzisothiazoline-3-	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
one	Oral (Rat) LD50: 454 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 1800 mg/kg <sup>[2]</sup>	Eye (rabbit): 1204 ppm/7h	
ethyl acrylate	Inhalation (Rat) LC50: ~6.45 mg/l4h <sup>[1]</sup>	Eye (rabbit): 45 mg - mild	
	Oral (Rat) LD50: 800 mg/kg <sup>[2]</sup>	Skin (rabbit): 10 mg/24h - mild	
		Skin (rabbit): 500 mg open - mild	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
acrylic acid homopolymer	Inhalation (Rat) LC50: >5.1 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: 146-468 mg/kg <sup>[1]</sup>		
silica amorphous	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): non-irritating ** [Grace]	
	Inhalation (Rat) LC50: >0.09<0.84 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >1000 mg/kg <sup>[1]</sup>	Skin (rabbit): non-irritating *	

		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
titanium dioxide	Inhalation (Rat) LC50: >2.28 mg/l4h <sup>[1]</sup>	Skin (human): 0.3 mg /3D (int)-mild *
	Oral (Rat) LD50: >=2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - J Unless otherwise specified data extracted from RTECS - Regis</li> </ol>	-
1,2-BENZISOTHIAZOLINE- 3-ONE	In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framewor for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products is carried out before they can be placed on the Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products (i.e. the general public) may occur indirectly via the environment, for example through drinking water, the food chain, as well as through atmospheric and residential exposure. Particular attention should be paid to the exposure of vulnerable sub-populations, such as the elderly, pregnant women, and children. Also pets and other domestic animals can be exposed indirectly following the application of biocidal products. Furthermore, exposure to biocides may vary in terms of route (inhalation, dermal contact, and ingestion) and pathway (food, drinking water, residential, occupational) of exposure, level, Inhalation, dermal contact, and ingestion and pathway (food, drinking water, residential, occupational) of exposure, level, Inhalation, dermal contact, and ingestion and pathway (food, drinking water, residential, occupational) of exposure, level, Inhalation, dermal contact, and inducers has led to the speculation that thiazole toxicity is attributed to ring scission yielding the corresponding thioamide metabolite. Ring opening has also been observed in benzothiazoles. For instance, benzothiazole itself is converted to S- methylimercaptoaniline. Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is moderately toxic by the oral and dermal routes but that this chemical is a severe eye irri	
ETHYL ACRYLATE	<ul> <li>Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example</li> <li>Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53</li> <li>Monoalkyl or monoarylesters of methacrylic acid should be classified as R36/37/38</li> <li>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</li> <li>Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen</li> <li>[<i>National Toxicology Program: U.S. Dep. of Health &amp; Human Services 2002</i>]</li> <li>Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing.</li> <li>This position has now been revised and acrylates and methacrylates are no longer <i>de facto</i> carcinogens.</li> </ul>	
ACRYLIC ACID HOMOPOLYMER	most, slightly irritating to the eye. Further P-AA has no sensitisin The adverse effect after repeated inhalation dosing (91-d/rat) wa as not substance related owing to the physical property of the re There was neither evidence for a genotoxic potential of PAA usin developmental toxicity or reprotoxicity in the rat. Based upon the polycarboxylates does not imply any particular hazard to human	> 5 g/kg bw/d) and are not irritating to the rabbit s skin and, at the ng potential. as a mild, reversible pulmonary irritation. This effect is considerer espirable dust, which caused local and not systemic lung effects. ng a variety of genetic endpoints in-vitro and in-vivo,nor for e available data, it is considered that exposure to ns these crosslinked alkyl acrylates are macromolecules that are no

applied cosmetics are not expected to result in systemic or reproductive and developmental toxicity or to have genotoxic or carcinogenic effects upon use. The Panel noted that cosmetic products containing these ingredients are reportedly used around the eyes, on the lips, and on other muccus membranes. Thus, crosslinked alkyl acrylates could be absorbed systemically through the relatively moist.n stratum come a of the conjunctiva, lips,and other muccus membranes is likely to be not significant/primarily because of the relatively large molecular sizes. Furthermore, the chemically inert nature of the polymers precludes degradation to smaller absorbate species. Absorption of the polymers and their residual monomers in cosmetic products also would be limited after application to the lips or eye area based on the relatively small fractions of the applied products that might be inadvertently ingested or make direct contact with the conjunctiva. The Carbomers Pol, -934, -934, -940, -941, have low toxicities when ingested. Rabbits showed minimal skin initiation and zero to moderate eye irritation when tested with Carbomers-910, -934, -934, -941, have low toxicities when ingested. Rabbits showed minimal skin irritation and zero to moderate eye irritation when tested with Carbomers-910 and -934. Subchronic feeding of rats and dogs with Carbomer-934P manifested gastrointestinal irritation and marked pigment deposition within Kupffer cells of the liver. Clinical studies with Carbomers-934P manifested gastrointestinal irritation and marked pigment deposition within Kupffer cells of the liver. Clinical studies with Carbomers and and a qualified in the report, it is conclude that were available for the monomers. In an alternative results in Ames tests. Carchomer-934 demonstrated low potential for photoxicity and photo-contcat altergenicity. On the basis of the available information presented and as qualified in the report, it is concluded that the carbomers? are asfa as cosmetic ingredients. Little toxicity data is available
that may be present in acrylates/ C10-30 alkyl acrylates crosspolymer resulted in different lifetime risk. One found that the risk was within the range associated with a 10exp 6 cancer risk, while the other reported a 20-fold greater risk. Final Safety Assessment: Crosslinked Alkyl Acrylates as Used in Cosmetics. Nov 2011 Cosmetic Ingredient Review (CIR) Expert Panel
 https://ntp.niehs.nih.gov/ntp/roc/nominations/2013/publiccomm/attachmentcir_508.pdf
Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammats. After ingestion, there is limited accumulation of SAS in body tissues and rapid elimination occurs. Intestinal absorption has not been calculated, but appears to be insignificant in animals and humans. SASs injected subcutaneously are subjected to rapid dissolution and removal. There is no indication of metabolism of SAS in animals or humans based on chemical structure and available data. In contrast to crystalline silica, SAS is soluble in physiological media and the soluble chemical species that are formed are eliminated via the urinary tract without modification. Both the mammalian and environmental toxicology of SASs are significantly influenced by the physical and chemical properties, particularly those of solubility and particle size. SAS has no acute intrinsic toxicity by inhalation. Adverse effects, including suffocation, that have been reported were caused by the presence of high numbers of respirable particles generated to meet the required fets atmosphere. These results are not representative of consource to commercial SASs an

Neither inhalation nor oral administration caused neoplasms (tumours). SAS is not mutagenic in vitro. No genotoxicity was detected in in vivo assays. SAS does not impair development of the foetus. Fertility was not specifically studied, but the reproductive organs in long-term studies were not affected.

For Synthetic Amorphous Silica (SAS)

	Repeated dose toxicity Oral (rat), 2 weeks to 6 months, no significant treatment-related adverse effects at doses of up to 8% silica in the diet. Inhalation (rat), 13 weeks, Lowest Observed Effect Level (LOEL) =1.3 mg/m3 based on mild reversible effects in the lungs. Inhalation (rat), 90 days, LOEL = 1 mg/m3 based on reversible effects in the lungs and effects in the nasal cavity. For silane treated synthetic amorphous silica: Repeated dose toxicity: oral (rat), 28-d, diet, no significant treatment-related adverse effects at the doses tested. There is no evidence of cancer or other long-term respiratory health effects (for example, silicosis) in workers employed in the manufacture of SAS. Respiratory symptoms in SAS workers have been shown to correlate with smoking but not with SAS exposure, while serial pulmonary function values and chest radiographs are not adversely affected by long-term exposure to SAS.
TITANIUM DIOXIDE	* LICLID Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of appropriate studies using mammalian somatic cells in vivo. Such findings are often supported by positive results from in vito mutagenicity studies. For thanum dioxide: Humans can be exposed to thanium dioxide via inhalation, ingestion or dermal contact. In human lungs, the clearance kinetics of thanium dioxide is poorly characterized relative to that in experimentia 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 inhale titanium dioxide, human data are mainy available from cases reports that showed deposites of thanium dioxide is particle size-dependent absorption by the gastrointestinal tract and large the stratum dioxide to healthy skin of human volunteers revealed that ittanium dioxide particles only penetrate into the outermost layers of the stratum concernum, suggesting that healthy skin is an effective barrier to titanium dioxide-exposed workers include decline in lung function, pleurid disease with plaques and pleural thickening, and mild fibrotic changes. However, the workers in these studies were also exposed to adsorbtion, reforman and equipation, reforman addition studies showed differences — both ron romalized 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 thanium dioxide is ab affected by rung, mass per body weight) and clearance kinetics as on threat sprease or to gascus polutans rot ovycoxic a erosoks. Differences in dose rate or clearance kinetics as on intracteristical relativity in undivide sub adsorbic dup to reveo, the rung adsorbic dup to rung trates o
1,2-BENZISOTHIAZOLINE- 3-ONE & ETHYL ACRYLATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.
1,2-BENZISOTHIAZOLINE-	No significant acute toxicological data identified in literature search.

3-ONE & TITANIUM

DIOXIDE			
ETHYL ACRYLATE & ACRYLIC ACID HOMOPOLYMER & TITANIUM DIOXIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non- allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.		
ETHYL ACRYLATE & TITANIUM DIOXIDE	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 epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
ACRYLIC ACID HOMOPOLYMER & SILICA AMORPHOUS	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Le	gend: X – Data either not ava ✓ – Data available to n	ailable or does not fill the criteria for classification nake classification

# **SECTION 12 Ecological information**

# Toxicity

Pebeo Studio Gouache	Endpoint	Test Duration (hr)	Species	Value	Source
made in France – other colours	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.07mg/L	2
1,2-benzisothiazoline-3-	EC50	48h	Crustacea	0.097mg/L	4
one	LC50	96h	Fish	0.067- 0.29mg/L	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.04mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	1.71mg/l	2
- the disconstants	EC50	48h	Crustacea	4.4mg/l	1
ethyl acrylate	LC50	96h	Fish	2mg/l	2
	NOEC(ECx)	504h	Crustacea	0.19mg/l	1
	EC50	96h	Algae or other aquatic plants	5.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.13- 0.205mg/l	2
crylic acid homopolymer	EC50	48h	Crustacea	47- 95mg/l	2
	LC50	96h	Fish	27mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	0.03- 0.031mg/l	2
silica amorphous	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	14.1mg/l	2
	EC50	48h	Crustacea	>86mg/l	2

	LC50	96h	Fish	1033.016mg/l	2
	EC50	96h	Algae or other aquatic plants	217.576mg/l	2
	EC0(ECx)	24h	Crustacea	>=10000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	<1.1-9.6	7
titanium dioxide	EC50	72h	Algae or other aquatic plants	3.75- 7.58mg/l	4
	EC50	48h	Crustacea	1.9mg/l	2
	LC50	96h	Fish	1.85- 3.06mg/l	4
	NOEC(ECx)	672h	Fish	>=0.004mg/L	2
	EC50	96h	Algae or other aquatic plants	179.05mg/l	2
Legend:	4. US EPA, Ec		ECHA Registered Substances - Ecotoxicolog ata 5. ECETOC Aquatic Hazard Assessment L		ntic Toxicit

## **DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.95 days)
acrylic acid homopolymer	LOW	LOW
silica amorphous	LOW	LOW
titanium dioxide	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation	
ethyl acrylate	LOW (LogKOW = 1.32)	
acrylic acid homopolymer	LOW (LogKOW = 0.4415)	
silica amorphous	LOW (LogKOW = 0.5294)	
titanium dioxide	LOW (BCF = 10)	

## Mobility in soil

Ingredient	Mobility
ethyl acrylate	LOW (Log KOC = 11.85)
acrylic acid homopolymer	HIGH (Log KOC = 1.201)
silica amorphous	LOW (Log KOC = 23.74)
titanium dioxide	LOW (Log KOC = 23.74)

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

	Recycle wherever possible or consult manufacturer for recycling options.	
Product / Packaging	<ul> <li>Consult State Land Waste Authority for disposal.</li> </ul>	
disposal	Bury or incinerate residue at an approved site.	
	Recycle containers if possible, or dispose of in an authorised landfill.	

# **SECTION 14 Transport information**

# Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

# Land transport (ADG): 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

## 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
1,2-benzisothiazoline-3-one	Not Available
ethyl acrylate	Not Available
acrylic acid homopolymer	Not Available
silica amorphous	Not Available
titanium dioxide	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
1,2-benzisothiazoline-3-one	Not Available
ethyl acrylate	Not Available
acrylic acid homopolymer	Not Available
silica amorphous	Not Available
titanium dioxide	Not Available

# **SECTION 15 Regulatory information**

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

#### 1,2-benzisothiazoline-3-one is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

#### ethyl acrylate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

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

#### acrylic acid homopolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

#### silica amorphous is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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

#### titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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)

#### Additional Regulatory Information

Not Applicable

#### **National Inventory Status**

#### Issue Date: 23/12/2022 Print Date: 17/08/2024

#### Pebeo Studio Gouache made in France – other colours

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (1,2-benzisothiazoline-3-one; ethyl acrylate; acrylic acid homopolymer)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (acrylic acid homopolymer)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZloC	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	23/12/2022
Initial Date	12/08/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	09/11/2020	Name
5.1	23/12/2022	Classification review due to GHS Revision change.

#### 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.

