

# Pebeo Studio Gouche made in France – other colours Jasco Pty Limited

Chemwatch: **5413-68** Version No: **3.1.1.1** Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: **09/01/2020** Print Date: **09/04/2020** L.GHS.AUS.EN

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

## **Product Identifier**

Product name	Pebeo Studio Gouche made in France – other colours
Synonyms	EN-FDS092 Studio Gouache France Cols
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
	Use according to manufacturer's directions.

## Details of the 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	sales@jasco.com.au

#### **Emergency telephone number**

Association / Organisation	Australian Poisons Centre
Emergency telephone numbers	13 11 26 (24/7)
Other emergency telephone numbers	Not Available

#### **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

## 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

result
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#### 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	
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>DO NOT allow material to contact humans, exposed food or food utensils.</li> </ul>

	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.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	Store in original containers.
	Keep containers securely sealed.
Other information	Store in a cool, dry, well-ventilated area.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.

## Conditions for safe storage, including any incompatibilities

Suitable container	<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: Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
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	Silica, fused	0.05 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	<ul><li>(e) Containing no asbestos and &lt;</li><li>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	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	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	Material name	TEEL-1	TEEL-2	TEEL-3
ethyl acrylate	Ethyl acrylate	Not Available	Not Available	Not Available
silica amorphous	Silica gel, amorphous synthetic	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	120 mg/m3	1,300 mg/m3	7,900 mg/m3

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
silica amorphous	Silica, amorphous fume		45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Silica amorphous hydrated		18 mg/m3	740 mg/m3	4,500 mg/m3
titanium dioxide	Titanium oxide; (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/m³	
acrylic acid homopolymer	E	≤ 0.01 mg/m³	
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.
Personal protection	
Eye and face protection	<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 in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</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

## **Respiratory protection**

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 &

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 Gouche made in France - other colours

Material	CPI
BUTYL	A
PVA	A
TEFLON	A
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.

#### 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	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

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

#### Information on basic physical and chemical properties

Appearance	Paste; mixes with water.		
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	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

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

# **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 Gouche	ΤΟΧΙCITY	IRRITATION
made in France – other colours	Not Available	Not Available
	TOXICITY	IRRITATION
	Oral (rat) LD50: 1020 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
1,2-benzisotniazoline-3-one	Oral (rat) LD50: 670 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: 784 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	~554 mg/kg <sup>[2]</sup>	Eye (rabbit): 1204 ppm/7h
	400-280 mg/kg <sup>[2]</sup>	Eye (rabbit): 45 mg - mild
	600 mg/kg <sup>[2]</sup>	Skin (rabbit): 10 mg/24h - mild
etnyi acrylate	860 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg open - mild
	Oral (rabbit) LD50: =1000 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =1020 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =2000 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
acrylic acid homopolymer	Not Available	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>

	TOXICITY	IRRITATION
silica amorphous	>5110 mg/kg <sup>[2]</sup>	Eye (rabbit): non-irritating *
	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Inhalation (rat) LC50: >0.139 mg/l/14h**[Grace] <sup>[2]</sup>	Skin (rabbit): non-irritating *
	Oral (rat) LD50: >15000 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>	
	Oral (rat) LD50: 3160 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	0.0032 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	0.04 mg/kg <sup>[2]</sup>	Skin (human): 0.3 mg /3D (int)-mild *
titanium dioxide	60000 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (mouse) LD50: >10000 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
Legend:	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substance	ces - Acute toxicity 2.* Value obtained from manufacturer's SDS.

1,2-BENZISOTHIAZOLINE-3-ONE	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 irritant. Irritation to the skin from acute data show only mild skin irritation , but repeated dermal application indicated a more significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicity study (piloerection and upward curvature of the spine at 300 mg/kg and above; decreased activity, prostration, decreased abdominal muscle tone, reduced righting reflex, and decreased rate and depth of breathing at 900 mg/kg) and the acute dermal toxicity study (upward curvature of the spine was observed in increased incidence, but this was absent after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exposures in excess of those expected from the use pattern of this pesticide and that such effects would not be observed at estimated exposure doses. <b>Subchronic oral toxicity</b> studies showed systemic effects after repeated oral administration including decreased body weight, increased incidence of forestomach hyperplasia, and non-glandular stomach lesions in rats. In dogs, the effects occurred at lower doses than in rats, and included alterations in blood chemistry (decreased plasma albumin, total protein, and alanine aminotransferase) and increased absolute liver weight. <b>Developmental toxicity</b> studies were conducted in rats with maternal effects including decreased body weight gain, decreased food consumption, and clinical toxicity signs (audible breathing, haircoat staining of the anogenital region, dry brown material around the nasal area) as well as increased mortality. Developmental effects consisted of increases in skeletal abnormalities (extra sites of ossification of skull bones, unossified sternebrae) but not external or visceral abnormalities.
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 monoaryl esters 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	Polycarboxylates are of low toxicity by all exposure routes examined. Homopolymers(P-AA) are of low acute toxicity to the rat (LD50 > 5 g/kg bw/d) and are not irritating to the rabbit's skin and, at the most, slightly irritating to the eye. Further P-AA has no sensitising potential. The adverse effect after repeated inhalation dosing (91-d/rat) was a mild, reversible pulmonary irritation. This effect is considered as not substance related owing to the physical property of the respirable dust, which caused local and not systemic lung effects. There was neither evidence for a genotoxic potential of PAA using a variety of genetic endpoints in-vitro and in-vivo,nor for developmental toxicity or reprotoxicity in the rat. Based upon the available data, it is considered that exposure to polycarboxylates does not imply any particular hazard to humans The Cosmetic Ingredient Review (CIR) Expert Panel noted that these crosslinked alkyl acrylates are macromolecules that are not expected to pass through the stratum corneum of the skin, so significant dermal absorption is not expected.

	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 mucous membranes. Thus, crossinked alkyl arylates could be absorbed systemically through the relatively moist,n stratum cornea of the conjunctiva, lips,and other mucous membranes, and through ingestion when applied to the lips. However, the Panel noted that any absorption through healthy intact mucous 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 absorbable species. Absorption of the polymers and their residual monomers in cosmetic products also would be limited after application to the lips or eye are absed on the relatively small fractions of the applied products that might be inadvertently ingested or make direct contact with the conjunctiva. The Carbomers (Carbopols) are synthetic, high molecular weight, nonlinear polymers of acrylic acid, cross-linked with a polyalkenyl polyether. The Carbomer polymers are used in cosmetics and emulsifying agents at concentrations up to 50%. Acute oral animal studies showed that Carbomer-934 in the diet resulted in lower than normal body weights, but no pathological changes were observed. Dogs chronically fed Carbomer-934P manifested gastrointestinal irritation and marked pigment deposition within Kupffer cells of the liver. Clinical studies with Carbomer-934 demonstrated low potential for phototoxicity and photo-contact allergenicity. On the basis of the available information presented and as qualified in the report, it is concluded that the Carbomers are asea as cometic ingredients. Little toxicity data is available for acrylic crosspolymers; the acute dermal and oral toxicity data that were found indicated that these ingredients are not very toxic. The little genotoxicity data that were available information presented and as quau
SILICA AMORPHOUS	Final Safety Assessment: Crosslinked Alkyl Acrylates as Used in Cosmetics. Nov 2011 Cosmetic Ingredient Review (CIR) Expert Panel http://htp.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 mammals. 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 on humans. SASs injected subcutaneously are subjected to arpid 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 sproperties, particularly those of solubility and particle size. SAS has no acute intrinsic toxicity by inhalation. Adverse effects, including suffocation

	<ul> <li>were between 0.5 and 10 mg/m3. The difference in values may be explained by different particle size, and therefore the number of particles administered per unit dose. In general, as particle size decreases so does the NOAEL/LOAEL.</li> <li>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.</li> <li>For Synthetic Amorphous Silica (SAS)</li> <li>Repeated dose toxicity</li> <li>Oral (rat), 2 weeks to 6 months, no significant treatment-related adverse effects at doses of up to 8% silica in the diet.</li> <li>Inhalation (rat), 13 weeks, Lowest Observed Effect Level (LOEL) =1.3 mg/m3 based on mild reversible effects in the lungs.</li> <li>Inhalation (rat), 90 days, LOEL = 1 mg/m3 based on reversible effects in the lungs and effects in the nasal cavity.</li> <li>For silane treated synthetic amorphous silica:</li> <li>Repeated dose toxicity: oral (rat), 28-d, diet, no significant treatment-related adverse effects at the doses tested.</li> <li>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.</li> </ul>
TITANIUM DIOXIDE	<ul> <li>LICLID</li> <li>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 vitro mutagenicity studies.</li> <li>For trainum dioxide:</li> <li>Humans can be exposed to thanum dioxide via inhalation, ingestion or dermal contact. In human lungs, the clearance kinetics of thanium dioxide is poorly characterized relative to that in experimental animals. (General particle characteristics and host factors that are considered to affect deposition and retention patterns of inhaled, tpoorly soluble particles such as titanium dioxide are summarized in the monograph on carbon black.) With regard to inhaled titanium dioxide, human data are mainy available from case reports that showed particle size-dependent absorption by the gastrointestinal tract and large interindividual variations in blood levels of titanium dioxide. Studies on the application of sumscreens containing ultrafine titanium dioxide to hatms vial there revealed that titanium dioxide particles only penetrate into the outermost layers of the stratum comeum, suggesting that healthy skin is an effective barrier to titanium dioxide in compromised skin.</li> <li>Respiratory effects that have been observed among groups of titanium dioxide exposed humans.</li> <li>No data were available on genotoxic effects in thanium dioxide in compromised skin.</li> <li>Ned awere available on genotoxic effects in thanium dioxide in experimental animals are available for the inhalation route. Titanium dioxide instability of addeerance. Hamsters have the most since and the appearance of totain and dozede exposed humans.</li> <li>No data were available on genotoxic effects in tanium dioxide is also affected by pre-exposure to gaeous pollutants or co-exposure to cytotoxic aerosols. Differences in dose tar</li></ul>
	In-vivo studies have shown enhanced micronucleus formation in bone marrow and peripheral blood lymphocytes of

intraperitoneally instilled mice. Increased Hprt mutations were seen in lung epithelial cells isolated from titanium dioxideinstilled rats. In another study, no enhanced oxidative DNA damage was observed in lung tissues of rats that were intratracheally instilled with titanium dioxide. The results of most in-vitro genotoxicity studies with titanium dioxide were

		negative. No significant acute toxicological data identified in literature search. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
1,2-BENZISOTHIAZOLINE-3-0 & ETHYL ACRYL	DNE ATE	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.		
ETHYL ACRYLATE & ACRY ACID HOMOPOLYME TITANIUM DIOX	'LIC IR & IDE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The		
ETHYL ACRYLATE & TITAN DIOX	IUM (IDE	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 HOMOPOLYM & SILICA AMORPHO	MER DUS	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	×

Legend: X – Data either not available or does not fill the criteria for classification

< – Data available to make classification

×

Aspiration Hazard

# **SECTION 12 Ecological information**

Mutagenicity

×

## Toxicity

Pebeo Studio Gouche	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
	LC50	96	Fish	1.6mg/L	2
1,2-benzisothiazoline-3-one	EC50	48	Crustacea	2.9mg/L	2
	EC50	72	Algae or other aquatic plants	0.0403mg/L	2
	NOEC	72	Algae or other aquatic plants	0.055mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
ethyl acrylate	LC50	96	Fish	1.1mg/L	2
	EC50	48	Crustacea	1.3mg/L	2
	EC50	72	Algae or other aquatic plants	1.71mg/L	2
	EC0	48	Crustacea	0.7mg/L	2

	NOEC	504	Crustacea	0.136mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	27mg/L	2
acrylic acid homopolymer	EC50	48	Crustacea 47		2
	EC50	72	Algae or other aquatic plants	0.75mg/L	2
	NOEC	72	Algae or other aquatic plants	0.03mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	1-33.016mg/L	2
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
	NOEC	720	Crustacea	34.223mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>1-mg/L	2
titanium dioxide	EC50	48	Crustacea	>1-mg/L	2
	EC50	72	Algae or other aquatic plants	>10-mg/L	2
	NOEC	504	Crustacea	<0.1mg/L	2
Legend:	Extracted fror 3. EPIWIN Su ECETOC Aqu Vendor Data	m 1. IUCLID Toxicity Data 2. Europe ECHA i iite V3.12 (QSAR) - Aquatic Toxicity Data (E iatic Hazard Assessment Data 6. NITE (Jap	Registered Substances - Ecotoxicological II stimated) 4. US EPA, Ecotox database - Ac an) - Bioconcentration Data 7. METI (Japar	nformation - Aqua quatic Toxicity Da n) - Bioconcentrat	tic Toxicity ta 5. ion Data 8.

## **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 (KOC = 11.85)
acrylic acid homopolymer	HIGH (KOC = 1.201)
silica amorphous	LOW (KOC = 23.74)
titanium dioxide	LOW (KOC = 23.74)

# **SECTION 13 Disposal considerations**

# Waste treatment methods

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

## **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

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

Not Applicable

## **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	Australian Inventory of Industrial Chemicals (AIIC)	
Cremicais		
ethyl acrylate is found on the following regulatory lists		
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by	
Chemical Footprint Project - Chemicals of High Concern List	the IARC Monographs - Group 2B : Possibly carcinogenic to humans	
acrulic acid homonolymor is found on the following regulatory lists		
activite actuation polymer is round on the following regulatory lists		
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by	
	the IARC Monographs	
silica amorphous is found on the following regulatory lists		
Australia Hazardous Chemical Information System (HCIS) - Hazardous	Australian Inventory of Industrial Chemicals (AIIC)	
Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	
Australia Standard for the Uniform Scheduling of Medicines and Poisons		
(SUSMP) - Schedule 10 / Appendix C	International WHO List of Proposed Occupational Exposure Limit (OEL)	
Australia Standard for the Uniform Scheduling of Medicines and Poisons	Values for Manufactured Nanomaterials (MNMS)	
(SUSMP) - Schedule 4		
titanium dioxide is found on the following regulatory lists		
Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by	
Chemical Footprint Project - Chemicals of High Concern List	the IARC Monographs - Group 2B : Possibly carcinogenic to humans International WHO List of Proposed Occupational Exposure Limit (OEL)	
International Agency for Research on Cancer (IARC) - Agents Classified by		

National Inventory Status

the IARC Monographs

National Inventory	Status
Australia - AIIC	Yes
Australia Non-Industrial Use	No (1,2-benzisothiazoline-3-one; ethyl acrylate; acrylic acid homopolymer; silica amorphous; titanium dioxide)
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 - NZIoC	Yes
Philippines - PICCS	Yes

Values for Manufactured Nanomaterials (MNMS)

National Inventory	Status
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 Other information**

Revision Date	09/01/2020
Initial Date	08/12/2020

#### **SDS Version Summary**

Version	Issue Date	Sections Updated	
2.1.1.1	08/12/2020	Synonyms	
3.1.1.1	09/01/2020	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, Disposal, Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Fire Fighter (fire incompatibility), First Aid (skin), Handling Procedure, Ingredients, Instability Condition, Personal Protection (other), Personal Protection (Respirator), Personal Protection (eye), Personal Protection (hands/feet), Spills (major), Storage (storage incompatibility)	

#### 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 Limit₀ IDLH: Immediately Dangerous to Life or Health Concentrations 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

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ORDER CODE	PART #	DESCRIPTION	RETAIL BARCODE
PEBE	0		
Gouac	he		
Studio Go	ouache		
220ml			
0908570	270-011	PEBEO STUDIO GOUACHE 220ML PERMANENT WHITE	3167862700114
0908566	270-013	PEBEO STUDIO GOUACHE 220ML CERULEAN BLUE	3167862700138
0908560	270-014	PEBEO STUDIO GOUACHE 220ML COBALT BLUE	3167862700145
0908557	270-015	PEBEO STUDIO GOUACHE 220ML ULTRA BLUE	3167862700152
0908568	270-018	PEBEO STUDIO GOUACHE 220ML CARMINE	3167862700183
0908551	270-022	PEBEO STUDIO GOUACHE 220ML LEMON YELLOW	3167862700220
0908564	270-026	PEBEO STUDIO GOUACHE 220ML IVORY BLACK	3167862700268
0908555	270-027	PEBEO STUDIO GOUACHE 220ML YELLOW ECHRE	3167862700275
0908561	270-029	PEBEO STUDIO GOUACHE 220ML BURNT UMBER	3167862700299
0908559	270-032	PEBEO STUDIO GOUACHE 220ML BRIGHT ORANGE	3167862700329
0908565	270-033	PEBEO STUDIO GOUACHE 220ML CADMIUM RED	3167862700336
0908558	270-038	PEBEO STUDIO GOUACHE 220ML BURNT SIENNA	3167862700381
0908562	270-039	PEBEO STUDIO GOUACHE 220ML VERMILLION	3167862700398
0908552	270-042	PEBEO STUDIO GOUACHE 220ML EMERALD GREEN	3167862700428
0908569	270-043	PEBEO STUDIO GOUACHE 220ML LIGHT GREEN	3167862700435
0908572	270-045	PEBEO STUDIO GOUACHE 220ML SPRING GREEN	3167862700459
0908554	270-047	PEBEO STUDIO GOUACHE 220ML COBALT VIOLET	3167862700473
0908553	270-048	PEBEO STUDIO GOUACHE 220ML PRIMARY YELLOW	3167862700480
0908563	270-049	PEBEO STUDIO GOUACHE 220ML PRIMARY CYAN	3167862700497
0908571	270-050	PEBEO STUDIO GOUACHE 220ML PRIMARY MAGENTA	3167862700503
0908567	270-051	PEBEO STUDIO GOUACHE 220ML TRICHROMATIC BLACK	3167862700510