

# **Jasco Pty Limited**

Chemwatch Hazard Alert Code: 1

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

### Chemwatch: 5423-26

Version No: 3.1 Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

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

#### **Product Identifier**

Product name	Pebeo Graphic India Ink
Chemical Name	Not Applicable
Synonyms	EN-FDS123 Graphic India Ink
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.
	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
111-46-6	<2.5	diethylene glycol
2634-33-5	<0.013	1,2-benzisothiazoline-3-one
1333-86-4	NotSpec	carbon black
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

# **SECTION 4 First aid measures**

#### Description of first aid measures

bescription of mist and me	
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

Treat symptomatically.

### **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
--------

### Advice for firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.

	<ul> <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>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
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>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

### **SECTION 7 Handling and storage**

#### Precautions for safe handling

	-
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

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	diethylene glycol	2,2'-Oxybis[ethanol]	23 ppm / 100 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
diethylene glycol	6.9 ppm	140 ppm		860 ppm
carbon black	9 mg/m3	99 mg/m3		590 mg/m3
Ingredient	Original IDLH		Revised IDLH	
diethylene glycol	Not Available		Not Available	
1,2-benzisothiazoline-3-one	Not Available		Not Available	
carbon black	1,750 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>		
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

#### **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>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

Pebeo	Grap	hic	India	Ink
	- up		mana	

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 Graphic India Ink

Material	CPI
BUTYL	A
NITRILE	A

\* 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 gualified practitioner should be consulted.

#### **Ansell Glove Selection**

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675
DermaShield™ 73-711

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

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

### Information on basic physical and chemical properties

# Respiratory protection

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

#### ^ - 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

Appearance	Liquid; mixes with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.07
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
nitial 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

Continued...

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 Applicable
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Applicable

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	classified by EC Directives using animal models). No	e health effects or irritation of the respiratory tract following inhalation (as evertheless, adverse systemic effects have been produced following good hygiene practice requires that exposure be kept to a minimum and the al 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.		
	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.		
Eye	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor	ocular lesions which are present twenty-four hours or more after instillation r prolonged eye contact may cause inflammation characterised by temporal	
Eye Chronic	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-ter organs or biochemical systems. There is some evidence that human exposure to the	ocular lesions which are present twenty-four hours or more after instillation r prolonged eye contact may cause inflammation characterised by temporar njunctivitis); temporary impairment of vision and/or other transient eye m occupational exposure may produce cumulative health effects involving e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose levels	
	<ul> <li>individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur.</li> <li>Limited evidence suggests that repeated or long-terr organs or biochemical systems.</li> <li>There is some evidence that human exposure to the animal studies where effects have been observed in</li> </ul>	ocular lesions which are present twenty-four hours or more after instillation r prolonged eye contact may cause inflammation characterised by temporar njunctivitis); temporary impairment of vision and/or other transient eye m occupational exposure may produce cumulative health effects involving e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose levels	
	<ul> <li>individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated or redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur.</li> <li>Limited evidence suggests that repeated or long-tern organs or biochemical systems.</li> <li>There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary negative.</li> </ul>	ocular lesions which are present twenty-four hours or more after instillation r prolonged eye contact may cause inflammation characterised by temporal njunctivitis); temporary impairment of vision and/or other transient eye m occupational exposure may produce cumulative health effects involving e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose level on-specific consequences of the other toxic effects.	
Chronic	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-terr organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary not <b>TOXICITY</b>	ocular lesions which are present twenty-four hours or more after instillation r prolonged eye contact may cause inflammation characterised by tempora njunctivitis); temporary impairment of vision and/or other transient eye m occupational exposure may produce cumulative health effects involving e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose level on-specific consequences of the other toxic effects. IRRITATION	
Chronic	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-tern organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary no <b>TOXICITY</b> Not Available	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by temporal njunctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose level on-specific consequences of the other toxic effects.         IRRITATION         Not Available	
Chronic Pebeo Graphic India Ink	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-ter organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary ne <b>TOXICITY</b> Not Available <b>TOXICITY</b>	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by tempora         njunctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on         the absence of marked maternal toxicity, or at around the same dose level         on-specific consequences of the other toxic effects.         IRRITATION         Not Available         IRRITATION	
Chronic	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-terr organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary no <b>TOXICITY</b> Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup>	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by temporar         njunctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on         the absence of marked maternal toxicity, or at around the same dose levels         on-specific consequences of the other toxic effects.         IRRITATION         Not Available         Eye (rabbit) 50 mg mild	
Chronic Pebeo Graphic India Ink	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-terr organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary me <b>TOXICITY</b> Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >4.6 mg/l4h <sup>[1]</sup>	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by temporal njunctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose levels on-specific consequences of the other toxic effects.         IRRITATION         Not Available         Eye (rabbit) 50 mg mild         Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
Chronic Pebeo Graphic India Ink	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-terr organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary me <b>TOXICITY</b> Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >4.6 mg/l4h <sup>[1]</sup>	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by temporal junctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on the absence of marked maternal toxicity, or at around the same dose level on-specific consequences of the other toxic effects.         IRRITATION         Not Available         IRRITATION         Eye (rabbit) 50 mg mild         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (human): 112 mg/3d-l mild	
Chronic Pebeo Graphic India Ink	individuals and/or is expected to produce significant into the eye(s) of experimental animals. Repeated o redness (similar to windburn) of the conjunctiva (cor damage/ulceration may occur. Limited evidence suggests that repeated or long-terr organs or biochemical systems. There is some evidence that human exposure to the animal studies where effects have been observed in as other toxic effects but which are not secondary me <b>TOXICITY</b> Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: >4.6 mg/l4h <sup>[1]</sup>	ocular lesions which are present twenty-four hours or more after instillation         r prolonged eye contact may cause inflammation characterised by temporar         njunctivitis); temporary impairment of vision and/or other transient eye         m occupational exposure may produce cumulative health effects involving         e material may result in developmental toxicity. This evidence is based on         the absence of marked maternal toxicity, or at around the same dose levels         on-specific consequences of the other toxic effects.         IRRITATION         Not Available         Eye (rabbit) 50 mg mild         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (human): 112 mg/3d-l mild         Skin (rabbit): 500 mg mild	

	Oral (Rat) LD50: 454 mg/kg <sup>[1]</sup>	Skin: no adver	rse effect observed (not irritating) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION	
carbon black	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adver	se effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no adver	rse effect observed (not irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registere Unless otherwise specified data extracted from		
DIETHYLENE GLYCOL	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. Diglycolic acid is formed following the oxidation of accidentally ingested diethylene glycol in the body and can lead to severe complications with fatal outcome.		
1,2-BENZISOTHIAZOLINE- 3-ONE	The following information refers to contact allerg Contact allergies quickly manifest themselves a pathogenesis of contact eczema involves a cell skin reactions, e.g. contact urticaria, involve and simply determined by its sensitisation potential: equally important. A weakly sensitising substan stronger sensitising potential with which few inco- noteworthy if they produce an allergic test react In light of potential adverse effects, and to ensu- for biocides has been established with the obje- environment. To this aim, it is required that risk market. A central element in the risk assessmer application method and amount of applications Humans may be exposed to biocidal products in products are intended for industrial sectors or p for private use by non-professional users. In ad public) may occur indirectly via the environmen atmospheric and residential exposure. Particula the elderly, pregnant women, and children. Also application of biocidal products. Furthermore, e ingestion) and pathway (food, drinking water, re The predominant fate of the thiazole ring is oxic corresponding alpha-dicarbonyl metabolites an- and thioureas has led to the speculation that thi metabolite. Ring opening has also been observ methylmercaptoaniline. <b>Acute toxicity</b> data show that 1,2-benzisothiaz chemical is a severe eye irritant. Irritation to the application indicated a more significant skin irrit The neurotoxicity observed in the rat acute oral above; decreased activity, prostration, decreases of breathing at 900 mg/kg) and the acute derma incidence, but this was absent after day 5 post- expected from the use pattern of this pesticide is <b>Subchronic oral toxicity</b> studies showed syste increased incidence of forestomach hyperplasia lower doses than in rats, and included alteration aminotransferase) and increased absolute liver <b>Developmental toxicity</b> studies were conducte food consumption, and clinical toxicity signs (au around the nasal area) as well as increased more (extra sites of ossification of skull bones, unoss <b>Reproduct</b>	as contact eczema, more rarely as -mediated (T lymphocytes) immur tibody-mediated immune reactions the distribution of the substance a ce which is widely distributed can dividuals come into contact. From tion in more than 1% of the persor are a harmonised risk assessment ctive of ensuring a high level of pr assessment of biocidal products are the and thus the exposure of humans in different ways in both occupation professional uses only, whereas of dition, potential exposure of non-u- t, for example through drinking wa ar attention should be paid to the e pets and other domestic animals xposure to biocides may vary in te seidential, occupational) of exposu- dative ring scission catalysed by c d thioamide derivatives. The well- iazole toxicity is attributed to ring se ed in benzothiazoles. For instance coline-3-one (BIT) is moderately to eakin from acute data show only ne tation response. toxicity study (piloerection and up ed abdominal muscle tone, reduce al toxicity study (upward curvature dose at a dose of 2000 mg/kg) we and that such effects would not be emic effects after repeated oral ad a, and non-glandular stomach lesi ins in blood chemistry (decreased weight. ed in rats with maternal effects ince dible breathing, haircoat staining production study, parental toxicity s, toxic effects were reported at 1	a urticaria or Quincke's oedema. The ne reaction of the delayed type. Other allergic s. The significance of the contact allergen is no and the opportunities for contact with it are be a more important allergen than one with a clinical point of view, substances are ns tested. and management, the EU regulatory framewor otection of human and animal health and the s carried out before they can be placed on the utilization instructions that defines the dosage, and the environment to the biocidal substance nal and domestic settings. Many biocidal her biocidal products are commonly available users of biocidal products (i.e. the general ater, the food chain, as well as through exposure of vulnerable sub-populations, such as can be exposed indirectly following the erms of route (inhalation, dermal contact, and ure, level, frequency and duration. ytochrome P450 (CYP) and formation of the established toxicity associated with thioamides scission yielding the corresponding thioamide e, benzothiazole itself is converted to S- exic by the oral and dermal routes but that this nild skin irritation , but repeated dermal oward curvature of the spine at 300 mg/kg and ad righting reflex, and decreased rate and depth of the spine was observed in increased are felt to be at exposures in excess of those e observed at estimated exposure doses. Iministration including decreased body weight, ons in rats. In dogs, the effects occurred at plasma albumin, total protein, and alanine Auding decreased body weight gain, decreased of the anogenital region, dry brown material sisted of increases in skeletal abnormalities or visceral abnormalities. was observed at 500 ppm and was 000 ppm and consisted of preputial separation
	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil re	ported	
CARBON BLACK			
1,2-BENZISOTHIAZOLINE-	WARNING: This substance has been classified No significant acute toxicological data identified		bly Carcinogenic to Humans.
1,2-BENZISOTHIAZOLINE-			bly Carcinogenic to Humans.
1,2-BENZISOTHIAZOLINE- 3-ONE & CARBON BLACK Acute Toxicity	No significant acute toxicological data identified	I in literature search. Carcinogenicity	×
1,2-BENZISOTHIAZOLINE- 3-ONE & CARBON BLACK	No significant acute toxicological data identified	l in literature search.	

Damage/Irritation

Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
Legend: X – Data either not available or does not fill the criteria for classification			

Data available to make classification

#### **SECTION 12 Ecological information**

	Endpoint	Test Duration (hr)	Species		Value	Source
Pebeo Graphic India Ink	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Valu	e	Sourc
	EC50	72h	Algae or other aquatic plants	>650	0<13000mg/l	2
die the device only and	NOEC(ECx)	192h	Algae or other aquatic plants	800n	ng/l	1
diethylene glycol	EC50	48h	Crustacea	>100	mg/l	2
	LC50	96h	Fish	>100	mg/l	4
	EC50	96h	Algae or other aquatic plants	4566	mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Sourc
	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	i	0.04mg/L	2
	Endpoint	Test Duration (hr)	Species		Value	Sourc
	EC50	72h	Algae or other aquatic plants	Algae or other aquatic plants >0.2mg/		2
carbon black	EC50	48h	Crustacea		33.076- 41.968mg/l	4
	LC50	96h	Fish		>100mg/l	2
	NOEC(ECx)	24h	Crustacea		3200mg/l	1

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
diethylene glycol	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
diethylene glycol	LOW (BCF = 180)

### Mobility in soil

Ingredient	Mobility
diethylene glycol	HIGH (Log KOC = 1)

### **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.	
	<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

### 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
diethylene glycol	Not Available
1,2-benzisothiazoline-3-one	Not Available
carbon black	Not Available

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

Product name	Ship Type
diethylene glycol	Not Available
1,2-benzisothiazoline-3-one	Not Available
carbon black	Not Available

### **SECTION 15 Regulatory information**

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

#### diethylene glycol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C

Australia Stational for the Onlifering of Medicines and Folsons (SOSME) - Schedule TO / Appel

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

#### 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)

#### carbon black 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

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

#### Additional Regulatory Information

Not Applicable

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (diethylene glycol; 1,2-benzisothiazoline-3-one; carbon black)	
China - IECSC	Yes	

National Inventory	Status	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date	23/12/2022
Initial Date	02/09/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	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.

