

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Ningbo Xiangfeng Imp. & Exp. Co., Ltd.

SDS No.: HKGH0207364801

Safety Data Sheet (Conforms to Regulation (EC) No 2015/830)

Issue Date: 23/01/2017

Print Date: 23/01/2017

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Product name	Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)
Synonyms	water colour pen
Other means of identification	Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	writing
Uses advised against	Not Applicable

1.3. Details of the supplier of the safety data sheet

Supplier:	Officeworks Ltd. 236-262 East Boundary Road Bentleigh East VIC 3165 Australia
Tel:	1300 633 423
ABN:	36 004 763 526
Emergency Phone Number: POISONS INFORMATION CENTRE 13 11 26.	

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP]	Not Classified
--	----------------

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

2.2. Label elements

CLP label elements

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

Supplemental Information

Contains 2-methyl-2H-isothiazol-3-one hydrochloride. May produce an allergic reaction.

2.3. Other hazards

May produce discomfort of the eyes and skin.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.7732-18-5 2.231-791-2 3.Not Available 4.Not Available	85.65-89.6	<u>water</u>	Not Classified
1.56-81-5 2.200-289-5 3.Not Available 4.01-2119471987-18-XXXX	10	<u>glycerol</u>	Not Classified (substance with a Union workplace exposure limit)
1.2611-82-7 2.220-036-2 3.Not Available 4.Not Available	0-2.2	<u>Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate (C.I. Acid Red 88)</u>	Not Classified
1.3844-45-9 2.223-339-8 3.Not Available 4.Not Available	0-1.67	<u>Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt (C.I. Acid Blue 9, disodium salt)</u>	Not Classified
1.3520-42-1 2.222-529-8 3.Not Available 4.Not Available	0-1.44	<u>Hydrogen 3,6-bis(diethylamino)-9-(2,4-disulphonatophenyl)xanthylum, sodium salt (C.I. Acid Red 52, sodium salt)</u>	Not Classified

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

1.1934-21-0 2.217-699-5 3.Not Available 4.Not Available	0-1.12	<u>Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate</u> (C.I. Acid Yellow 23)	Not Classified
1.915-67-3 2.213-022-2 3.Not Available 4.Not Available	0-0.96	<u>Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2,7-disulphonate</u> (C.I. Acid Red 27)	Not Classified
1.2783-94-0 2.220-491-7 3.Not Available 4.01-2119943707-29-XXXX	0-0.78	<u>Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate</u> (C.I. Food Yellow 3)	Not Classified
1.17372-87-1 2.241-409-6 3.Not Available 4.Not Available	0-0.45	<u>Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthene-9-yl)benzoate</u> (eosin yellowish)	Serious eye damage/eye irritation Hazard Category 2 (H319)
1.26172-54-3 2.247-499-3 3.Not Available 4.Not Available	0.1	<u>2-methyl-2H-isothiazol-3-one hydrochloride</u>	Skin corrosion/irritation, Hazard Category 1B (H314), Skin Sensitizer Category 1 (H317), Respirat. Sensitisation Hazard Category 1 (H334)
1.68439-46-3 2.614-482-0 3.Not Available 4.01-2119980051-45-XXXX	0.1	<u>alcohols C9-11 ethoxylated</u>	Acute toxicity (oral) Hazard Category 4 (H302), Serious eye damage/eye irritation Hazard Category 1 (H318)

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact	<p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.
Ingestion	<ul style="list-style-type: none"> ▶ Immediately give a glass of water. ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

Continued...

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- ▶ foam.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
-----------------------------	-------------

5.3. Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves in the event of a fire. ▶ Prevent, by any means available, spillage from entering drains or water courses. ▶ Use fire fighting procedures suitable for surrounding area.
Fire/Explosion Hazard	<ul style="list-style-type: none"> ▶ The material is not readily combustible under normal conditions. ▶ However, it will break down under fire conditions and the organic component may burn. ▶ Not considered to be a significant fire risk. ▶ Heat may cause expansion or decomposition with violent rupture of containers. <p>Decomposes on heating and produces toxic fumes of:</p> <p>carbon dioxide (CO₂)</p> <p>other pyrolysis products typical of burning organic material.</p>

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment. ▶ Contain and absorb spill with sand, earth, inert material or vermiculite.
Major Spills	<ul style="list-style-type: none"> ▶ Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite. ▶ 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). ▶ Glutathione has also been used to inactivate the isothiazolinones. ▶ 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.

6.4. Reference to other sections

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

Continued...

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. ▶ Do not allow clothing wet with material to stay in contact with skin
Fire and explosion protection	See section 5
Other information	Not available

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> ▶ Polyethylene or polypropylene container. ▶ Packing as recommended by manufacturer. ▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	<p>Glycerol:</p> <ul style="list-style-type: none"> ▶ reacts violently with strong oxidisers, acetic anhydride, alkali metal hydrides, calcium hypochlorite, calcium oxychloride, chlorine, chromic anhydride, chromium oxides, ethylene oxide, hydrogen peroxide, phosphorous triiodide, potassium chlorate, potassium permanganate, potassium peroxide, silver perchlorate, sodium hydride, sodium peroxide, sodium triiodide, sodium tetrahydroborate, is incompatible with strong acids, caustics, aliphatic amines, isocyanates, uranium fluoride ▶ is able to polymerise above 145 C

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	glycerol	Glycerol, mist	10 mg/m ³	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
glycerol	Glycerine (mist); (Glycerol; Glycerin)	45 mg/m ³	860 mg/m ³	2,500 mg/m ³

Ingredient	Original IDLH	Revised IDLH
water	Not Available	Not Available
glycerol	Not Available	Not Available
C.I. Acid Red 88	Not Available	Not Available
C.I. Acid Blue 9, disodium salt	Not Available	Not Available
C.I. Acid Red 52, sodium salt	Not Available	Not Available
C.I. Acid Yellow 23	Not Available	Not Available

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

C.I. Acid Red 27	Not Available	Not Available
C.I. Food Yellow 3	Not Available	Not Available
eosin yellowish	Not Available	Not Available
2-methyl-2H-isothiazol-3-one hydrochloride	Not Available	Not Available
alcohols C9-11 ethoxylated	Not Available	Not Available

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
8.2.2. Personal protection	See below
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses with side shields. ▶ Chemical goggles. ▶ 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.
Skin protection	See Hand protection below
Hands/feet protection	<ul style="list-style-type: none"> ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care.</p> <ul style="list-style-type: none"> ▶ Butyl rubber gloves ▶ Nitrile rubber gloves
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:
"Forsberg Clothing Performance Index".
Not available

Respiratory protection

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.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum	Maximum gas/vapour	Half-face Respirator	Full-Face Respirator
------------------	--------------------	----------------------	----------------------

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

protection factor	concentration present in air p.p.m. (by volume)		
up to 10	1000	A-AUS / Class 1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

* - Continuous Flow

** - Continuous-flow or positive pressure demand.

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, 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 deg C)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)		
Physical state	Liquid	Relative density (Water = 1)	Not Available
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	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity	See section 7.2
10.2. Chemical stability	<ul style="list-style-type: none"> ▶ Unstable in the presence of incompatible materials. ▶ Product is considered stable. ▶ Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product				
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Taken by mouth, isothiazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination.				
Skin Contact	<p>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.</p> <p>Solutions of isothiazolinones may be irritating or even damaging to the skin, depending on concentration. A concentration of over 0.1% can irritate, and over 0.5% can cause severe irritation. Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions 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.</p>				
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). Solutions containing isothiazolinones may damage the mucous membranes and cornea. Animal testing showed very low concentrations (under 0.1%) did not cause irritation, while higher levels (3-5.5%) produced severe irritation and damage to the eye.				
Chronic	<p>Substance accumulation, in the human body, is likely and may cause some concern following repeated or long-term occupational exposure.</p> <p>The isothiazolinones are known contact sensitisers. Sensitisation is more likely with the chlorinated species as opposed to the non-chlorinated species.</p>				
water colour pen	<table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	TOXICITY	IRRITATION	Not Available	Not Available
TOXICITY	IRRITATION				
Not Available	Not Available				

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

WATER	No significant acute toxicological data identified in literature search.
GLYCEROL	At very high concentrations, evidence predicts that glycerol may cause tremor, irritation of the skin, eyes, digestive tract and airway. Otherwise it is of low toxicity. There is no significant evidence to suggest that it causes cancer, genetic, reproductive or developmental toxicity.
C.I. ACID RED 88	No data of toxicological significance identified in literature search.
C.I. ACID RED 52, SODIUM SALT	Hamster cell mutagen
C.I. ACID YELLOW 23	Suspected allergen *[Hawleys]
C.I. FOOD YELLOW 3	Acceptable daily intake as food additive = 2.5 mg/kg FAO/WHO 1982
EOSIN YELLOWISH	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Topical, oral, and intravenous use of fluorescein usually causes nausea, diarrhoea, hives, acute hypotension, hyper allergic reaction, heart attack and even sudden death. As such, health care staff should use prophylactic antihistamines and always prepare for possible emergency resuscitation to reduce risk and prevent death from emergencies. Adverse reaction is 25 times more common in those with prior adverse reaction and this may be elicited with a pin prick test. Reaction to lip stick containing eosin (which is derived from fluorescein) has caused skin inflammation. Bacterial cell mutagen Equivocal tumorigen by RTECS criteria
ALCOHOLS C9-11 ETHOXYLATED	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. Moreover, no fatal case of poisoning with alcohol ethoxylates has ever been reported. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma. Death may result in experimental animal. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. Dermal (rabbit): 4000 mg/kg * Somnolence, ataxia, diarrhoea recorded.
GLYCEROL & C.I. ACID RED 27 & C.I. FOOD YELLOW 3 & 2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE	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.
C.I. ACID BLUE 9, DISODIUM SALT & C.I. ACID RED 27	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.
C.I. ACID YELLOW 23 & 2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE	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.
C.I. ACID YELLOW 23 & 2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE	Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins.
C.I. ACID YELLOW 23 & 2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE	Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema.

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

C.I. ACID YELLOW 23 & 2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE

Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

Acute Toxicity	☹	Carcinogenicity	☹
Skin Irritation/Corrosion	☹	Reproductivity	☹
Serious Eye Damage/Irritation	☹	STOT - Single Exposure	☹
Respiratory or Skin sensitisation	☹	STOT - Repeated Exposure	☹
Mutagenicity	☹	Aspiration Hazard	☹

Legend: ☹ – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
glycerol	LC50	96	Fish	>11mg/L	2
glycerol	EC50	96	Algae or other aquatic plants	77712.039mg/L	3
glycerol	EC0	24	Crustacea	>500mg/L	1
C.I. Acid Red 88	LC50	96	Fish	1336.974mg/L	3
C.I. Acid Red 88	EC50	96	Algae or other aquatic plants	5683.985mg/L	3
C.I. Acid Blue 9, disodium salt	LC50	96	Fish	>96mg/L	4
C.I. Acid Blue 9, disodium salt	EC50	48	Crustacea	>97mg/L	4
C.I. Acid Yellow 23	LC50	96	Fish	306.656mg/L	3
C.I. Acid Yellow 23	EC50	144	Algae or other aquatic plants	37.762mg/L	3
C.I. Acid Red 27	LC50	96	Fish	1336.974mg/L	3
C.I. Acid Red 27	EC50	96	Algae or other aquatic plants	5683.985mg/L	3
C.I. Food Yellow 3	LC50	96	Fish	165mg/L	2
C.I. Food Yellow 3	EC50	48	Crustacea	486.5mg/L	2
C.I. Food Yellow 3	EC50	96	Algae or other aquatic plants	44524mg/L	2
C.I. Food Yellow 3	EC50	96	Algae or other aquatic plants	146000mg/L	2
eosin yellowish	LC50	96	Fish	1.954mg/L	3
eosin yellowish	EC50	96	Algae or other aquatic plants	7.986mg/L	3
eosin yellowish	EC50	96	Algae or other aquatic plants	8.943mg/L	3
alcohols C9-11 ethoxylated	LC50	96	Fish	8.5mg/L	4
alcohols C9-11 ethoxylated	EC50	48	Crustacea	2.686mg/L	4

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Print Date: 23/01/2017

alcohols C9-11 ethoxylated	EC50	48	Crustacea	5.3mg/L	4
alcohols C9-11 ethoxylated	NOEC	720	Fish	0.11-0.28mg/L	2

For Glycerol: Log Kow: -2.66 to -2.47, Atmospheric Fate: Glycerol is broken down in the air by hydroxyl radicals the half-life for this process is 6.8 hours. However, only a negligible amount of the substance will move to the atmospheric compartment. Terrestrial Fate: Only a negligible amount of glycerol will move into the soil compartment, if released into the environment. Aquatic Fate: Glycerol is considered to be readily biodegradable in the aquatic environment. For Acid Dyes: Environmental Fate: Many dyes are visible in water at very low concentrations. Textile processing waste waters are therefore usually highly colored and discharge in open waters presents an aesthetic problem. As dyes are designed to be chemically and light stable, they are highly persistent in natural environments. Acid dyes are not expected to be degraded by oxygen dependent microorganisms and their release may present an ecotoxic hazard.

Environmental Fate: Isothiazolinones are antimicrobials used to control bacteria, fungi, and for wood preservation and antifouling agents. They are frequently used in personal care products such as shampoos and other hair care products, as well as certain paint formulations. The most common isothiazolinone combinations are 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI).

Aquatic Fate: 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI), undergo primary biological breakdown with half-lives of less than 24 hours in both oxygenated and low oxygen sediments with >55% breakdown occurring within 29 days.

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
glycerol	LOW	LOW
C.I. Acid Red 88	HIGH	HIGH
C.I. Acid Yellow 23	HIGH	HIGH
C.I. Acid Red 27	HIGH	HIGH
eosin yellowish	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
glycerol	LOW (LogKOW = -1.76)
C.I. Acid Red 88	LOW (LogKOW = 1.6301)
C.I. Acid Yellow 23	LOW (BCF = 3)
C.I. Acid Red 27	LOW (LogKOW = 1.6301)
eosin yellowish	HIGH (LogKOW = 4.8032)

12.4. Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
glycerol	HIGH (KOC = 1)
C.I. Acid Red 88	LOW (KOC = 1572000)
C.I. Acid Yellow 23	LOW (KOC = 79.38)
C.I. Acid Red 27	LOW (KOC = 1572000)
eosin yellowish	LOW (KOC = 18860)

12.5. Results of PBT and vPvB assessment

P	B	T
---	---	---

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product / Packaging disposal	<p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> ▶ Reduction ▶ Reuse ▶ Recycling ▶ Disposal (if all else fails) <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none"> ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▶ Where in doubt contact the responsible authority. ▶ Recycle wherever possible. ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. ▶ Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). ▶ Decontaminate empty containers.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.UN number	Not Applicable								
14.2.UN proper shipping name	Not Applicable								
14.3. Transport hazard class(es)	<table> <tr> <td>Class</td><td>Not Applicable</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>	Class	Not Applicable	Subrisk	Not Applicable				
Class	Not Applicable								
Subrisk	Not Applicable								
14.4.Packing group	Not Applicable								
14.5.Environmental hazard	Not Applicable								
14.6. Special precautions for user	<table> <tr> <td>Hazard identification (Kemler)</td><td>Not Applicable</td></tr> <tr> <td>Classification code</td><td>Not Applicable</td></tr> <tr> <td>Hazard Label</td><td>Not Applicable</td></tr> <tr> <td>Special provisions</td><td>Not Applicable</td></tr> </table>	Hazard identification (Kemler)	Not Applicable	Classification code	Not Applicable	Hazard Label	Not Applicable	Special provisions	Not Applicable
Hazard identification (Kemler)	Not Applicable								
Classification code	Not Applicable								
Hazard Label	Not Applicable								
Special provisions	Not Applicable								

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

Limited quantity

Not Applicable

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

14.1.UN number	Not Applicable
14.2.UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	ICAO/IATA Class Not Applicable
	ICAO / IATA Subrisk Not Applicable
	ERG Code Not Applicable
14.4.Packing group	Not Applicable
14.5.Environmental hazard	Not Applicable
14.6. Special precautions for user	Special provisions Not Applicable
	Cargo Only Packing Instructions Not Applicable
	Cargo Only Maximum Qty / Pack Not Applicable
	Passenger and Cargo Packing Instructions Not Applicable
	Passenger and Cargo Maximum Qty / Pack Not Applicable
	Passenger and Cargo Limited Quantity Packing Instructions Not Applicable
	Passenger and Cargo Limited Maximum Qty / Pack Not Applicable

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

14.1.UN number	Not Applicable
14.2.UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	IMDG Class Not Applicable
	IMDG Subrisk Not Applicable
14.4.Packing group	Not Applicable
14.5.Environmental hazard	Not Applicable
14.6. Special precautions for user	EMS Number Not Applicable
	Special provisions Not Applicable
	Limited Quantities Not Applicable

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.UN number	Not Applicable
14.2.UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable Not Applicable
14.4.Packing group	Not Applicable
14.5.Environmental hazard	Not Applicable
14.6. Special precautions for user	Classification code Not Applicable
	Special provisions Not Applicable

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

Limited quantity	Not Applicable
Equipment required	Not Applicable
Fire cones number	Not Applicable

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex IV - Exemptions from the Obligation to Register in Accordance with Article 2(7)(a) (English)

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

GLYCEROL(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

UK Workplace Exposure Limits (WELs)

C.I. ACID RED 88(2611-82-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

C.I. ACID BLUE 9, DISODIUM SALT(3844-45-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

C.I. ACID RED 52, SODIUM SALT(3520-42-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

C.I. ACID YELLOW 23(1934-21-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

C.I. ACID RED 27(915-67-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

C.I. FOOD YELLOW 3(2783-94-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

EOSIN YELLOWISH(17372-87-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

2-METHYL-2H-ISOTHIAZOL-3-ONE HYDROCHLORIDE(26172-54-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...

Water Colour Pen (Black, Warm Gray, Prussian Blue, Blue, Sky Blue, Gray, Deep Green, Leaf Green, Emerald Green, Yellow, Lemon Yellow, Khaki, Pink, Red, Light Rose Red, Licac, Purple, Chrome Yellow, Light Blue, Olive Green, Pale Orange, Orange, Carmine, Violet and earthy yellow)

Issue Date: 23/01/2017

Print Date: 23/01/2017

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

ALCOHOLS C9-11 ETHOXYLATED(68439-46-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Commission Regulation (EU) 2015/830, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and their amendments

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Other information

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.

End of SDS