

INKS FOR STAMPER & INK PAD

MSDS Material Safety Data Sheet(Conforms to Reg.(EC)No 1907/2006,Reg.(EC)No 1272/2008 and their amendments)

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SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Inks for ink pad

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered company name: T. Stamp International Co Ltd

Email: sds@tstamp.com.hk

PRODUCT USE

Ink pad

SYNONYMS

"Inks in #06-Ever Green, #08-Violet Red , #11- Crimson , #22- Violet , # 33-Royal Blue , #38-Black for ink pad"

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

DSD classification: In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) or CLP (Regulation (EC) No 1272/2008) regulations

DSD classification (additional): No data available

DPD classification: No data available

CLP classification: Chronic Aquatic Hazard Category 2

CLP classification (additional): No data available

2.2. Label elements

CLP label elements

Additional Statement(s): No data available

Supplementary statement(s): No data available

Precautionary statement(s): No data available

DSD / DPD label elements

Relevant risk statements are found in section 2.1

Indication(s) of danger: CONSIDERED A DANGEROUS MIXTURE ACCORDING TO DIRECTIVE 1999/45/EC AND ITS AMENDMENTS.

Safety advice:

- S29 Do not empty into drains.
- S40 To clean the floor and all objects contaminated by this material, use water.
- S35 This material and its container must be disposed of in a safe way.
- S57 Use appropriate container to avoid environmental contamination.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
- S60 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

No data available

PBT/vPvB criteria

No data available

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****Name****Classification according to (EC) No1272/2008 [CLP]**

1. 57-55-6

2. 200-338-0

3. No data available

4. No data available

propylene glycol

According to CLP no hazard category has been assigned

1. 56-81-5

2. 200-289-5

3. No data available

4. No data available

glycerine

According to CLP no hazard category has been assigned

1. 7023-61-2

2. 230-303-5

3. No data available

4. No data available

C.I. Pigment Red 48:2

According to CLP no hazard category has been assigned

1. 980-26-7

2. 213-561-3

3. No data available

4. No data available

C.I. Pigment Red 122

According to CLP no hazard category has been assigned

1. 1934-21-0

2. 217-699-5

3. No data available

4. No data available

C.I. Food Yellow #4

According to CLP no hazard category has been assigned

1. 1328-53-6

2. 215-524-7

3. No data available

4. No data available

C.I. Pigment Green 7

According to CLP no hazard category has been assigned

1. 147-14-8

2. 205-685-1

3. No data available

4. No data available

C.I. Pigment Blue 15

According to CLP no hazard category has been assigned

1. 6358-30-1

2. 228-767-9

3. No data available

4. No data available

C.I. Pigment Violet 23

According to CLP no hazard category has been assigned

1. 1333-86-4

2. No data available

3. No data available

4. No data available

Carbon black

According to CLP no hazard category has been assigned

SECTION 4: First aid measures**4.1. Description of first aid measures****General:** No data available**Ingestion:** 1. Immediately give a glass of water.

2. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Eye Contact: If this product comes in contact with eyes:

1. Wash out immediately with water.
2. If irritation continues, seek medical attention.
3. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact: If skin or hair contact occurs:

1. Flush skin and hair with running water (and soap if available).
2. Seek medical attention in event of irritation.

Inhalation: If fumes, aerosols or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary.

4.2. Most important symptoms and effects, both acute and delayed

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. Exposure to aliphatic alcohols with more than 3 carbons may produce central nervous system effects such as headache, dizziness, drowsiness, muscle weakness, delirium, CNS depression, coma, seizure, and neurobehavioural changes. Symptoms are more acute with higher alcohols. Inhalation hazard is increased at higher temperatures.

Not normally a hazard due to non-volatile nature of product

Ingestion:

- Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).

Skin Contact:

- The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts. However the material may be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as part of a cream, other topical application or by prolonged contact with clothing accidentally wetted by the material.

Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.

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:

- Although the material 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).

Chronic:

- Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

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

Treat symptomatically.

1. Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
2. Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
3. Treatment consists of supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Propylene glycol is primarily a CNS depressant in large doses and may cause hypoglycaemia, lactic acidosis and seizures.

The usual measures are supportive care and decontamination (Ipecac/ lavage/ activated charcoal/ cathartics), within 2

hours of exposure should suffice.

Ellenhorn and Barceloux: Medical Toxicology

SECTION 5: Firefighting measures

5.1. Extinguishing media

Chemical solvent fires need to be smothered with sand, inert dry powders. **DO NOT USE WATER, CO₂ or FOAM.**

1. Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1 or Met L-X to smother fire.
2. Confining or smothering material is preferable to applying water as chemical reaction may produce flammable and explosive hydrogen gas.
3. **DO NOT** use halogenated fire extinguishing agents.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility:

1. Reacts with acids producing flammable / explosive hydrogen (H₂) gas
2. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters

Fire Fighting:

1. Alert Fire Brigade and tell them location and nature of hazard.
2. Wear full body protective clothing with breathing apparatus.
3. Prevent, by any means available, spillage from entering drains or water course.
4. Use water delivered as a fine spray to control fire and cool adjacent area.

Fire/Explosion Hazard:

DO NOT disturb burning dust. Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal.

DO NOT use water or foam as generation of explosive hydrogen may result.

Combustion products include:

carbon dioxide (CO₂)

other pyrolysis products typical of burning organic material

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Protective Equipment: Gloves, boots (chemical resistant). Breathing apparatus.

Minor Spills: Environmental hazard - contain spillage.

1. Clean up all spills immediately.
2. Avoid breathing vapours and contact with skin and eyes.
3. Control personal contact with the substance, by using protective equipment.
4. Contain and absorb spill with sand, earth, inert material or vermiculite.

Major Spills: Environmental hazard - contain spillage.

Chemical Class: alcohols and glycols

For release onto land: recommended sorbents listed in order of priority.

Moderate hazard

1. Clear area of personnel and move upwind.
2. Alert Fire Brigade and tell them location and nature of hazard.
3. Wear breathing apparatus plus protective gloves.
4. Prevent, by any means available, spillage from entering drains or water course.

6.2. Environmental precautions

Not applicable

6.3. Methods and material for containment and cleaning up

Not applicable

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling**
1. **DO NOT** allow clothing wet with material to stay in contact with skin.
 2. Avoid all personal contact, including inhalation.
 3. Wear protective clothing when risk of exposure occurs.
 4. Use in a well-ventilated area.
 5. Prevent concentration in hollows and sumps.

Fire and explosion protection See section 5

- Other information**
1. Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.
 2. Store in original containers.
 3. Keep containers securely sealed.
 4. Store in a cool, dry, well-ventilated area.
 5. Store away from incompatible materials and foodstuff containers.

7.2. Conditions for safe storage, including any incompatibilities

- Suitable container:**
1. Metal can or drum
 2. Packaging as recommended by manufacturer.
 3. Check all containers are clearly labelled and free from leaks.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Derived No Effect Level (DNEL)

Exposure Pattern	Workers	General Population	Exposure Pattern	Workers	General Population
Long term - dermal, systemic effects	No data available	No data available	Short term - dermal, systemic effects	No data available	No data available
Long term - inhalation, systemic effects	No data available	No data available	Short term - inhalation, systemic effects	No data available	No data available
Long term - oral, systemic effects	No data available	No data available	Short term - oral, systemic effects	No data available	No data available
Long term - dermal, local effects	No data available	No data available	Short term - dermal, local effects	No data available	No data available
Long term - inhalation, local effects	No data available	No data available	Short term - inhalation, local effects	No data available	No data available

8.2. Exposure controls

8.2.1. Personal protection

- Eye and face protection:**
1. Safety glasses with side shields
 2. Chemical goggles.
 3. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate

irritants. A written policy document, describing the wearing of lens 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]

Skin protection: See Hand protection: below

Hand protection: Wear general protective gloves, eg. light weight rubber gloves.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

1. frequency and duration of contact,
2. chemical resistance of glove material,
3. glove thickness and
4. dexterity

Body protection: See Other protection: below

Other protection: No special equipment needed when handling small quantities.

OTHERWISE:

1. Overalls
2. Barrier cream
3. Eyewash unit

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

Thermal hazards: No data available

Recommended material (s): Not applicable

8.2.2. Environmental exposure controls

See section 12

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured
Odour	No data available
Odour threshold	No data available
Taste	No data available
pH (1% solution)	6.8
pH (as supplied)	7
Melting point / freezing point ()	-40
Initial boiling point and boiling range ()	>200
Flash point ()	230
Evaporation rate	Not Available
Flammability	No data available
Vapour pressure (kPa)	Not Available
Vapour density (Air = 1)	Not Available
Relative density (Water = 1)	1.01
Solubility in Water (g/L)	Miscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature ()	371
Critical temperature ()	Not Available

Viscosity (cSt)	Not Available
Explosive properties	No data available
Oxidising properties	No data available
Physical state	Liquid
Upper Explosive Limit (%)	Not Available
Lower Explosive Limit (%)	Not Available
Surface Tension	No data available
Volatile Component (%vol)	Not Available
Gas group	No data available
Molecular weight (g/mol)	Not Available
Evaporation Rate (BuAc = 1 EtAc = 1 Ether= 1)	Not Available
IUCLID Remarks	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity	See section 7.2
10.2. Chemical stability	<ol style="list-style-type: none"> 1. Presence of incompatible materials. 2. Product is considered stable. 3. 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

Mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: No data available

STOT - single exposure: No data available

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. No significant acute toxicological data identified in literature search. 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. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterized by skin redness (erythema) and swelling the epidermis. None assigned. Refer to individual constituents.

SECTION 12: Ecological information

12.1. Toxicity

Fish: No data available

Daphnia Magna: No data available

Algae: No data available

Toxic to aquatic micro-organisms: No data available

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil
Inks for stamp & ink pad	No Data Available
propylene glycol	LOW
glycerine	LOW
C.I. Pigment Green 7	No Data Available
Carbon Black	No Data Available
titanium dioxide	No Data Available
C.I. Pigment Red 122	No Data Available
C.I. Food Yellow #4	No Data Available
C.I. Pigment Blue 15	No Data Available
C.I. Pigment Red 48:2	No Data Available
C.I. Pigment Violet 23	No Data Available

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
Inks for stamp & ink pad	LOW
propylene glycol	LOW
glycerine	LOW
C.I. Pigment Green 7	LOW
Carbon Black	LOW
titanium dioxide	LOW
C.I. Pigment Red 122	LOW
C.I. Food Yellow #4	LOW
C.I. Pigment Blue 15	LOW
C.I. Pigment Red 48:2	LOW
C.I. Pigment Violet 23	LOW

12.4. Mobility in soil

Ingredient	Mobility
Inks for stamp & ink pad	High
propylene glycol	High
glycerine	High
C.I. Pigment Green 7	LOW
Carbon Black	LOW
titanium dioxide	LOW
C.I. Pigment Red 122	LOW
C.I. Food Yellow #4	LOW
C.I. Pigment Blue 15	LOW
C.I. Pigment Red 48:2	LOW
C.I. Pigment Violet 23	LOW

12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	No data available	No data available	No data available
PBT and vPvB Criteria fulfilled?	No data available	No data available	No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal: Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.
 A Hierarchy of Controls seems to be common - the user should investigate:

1. Reduction
2. **DO NOT** allow wash water from cleaning or process equipment to enter drains.
3. It may be necessary to collect all wash water for treatment before disposal.
4. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
5. Where in doubt contact the responsible authority.
6. Recycle wherever possible or consult manufacturer for recycling options.
7. Consult State Land Waste Authority for disposal.
8. Bury or incinerate residue at an approved site.
9. Recycle containers if possible, or dispose of in an authorised landfill.

Waste treatment

options:

Sewage disposal

options: No relevant data

Other disposal

recommendations:

SECTION 14: Transport information

Labels Required: MISCELLANEOUS

Land transport (ADR / RID / GGVSE)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)		14.6. Special precautions for user	Hazard identification (Kemler) 90 Classification Code M6 Hazard Label 9 Special provisions 274 335 601 Add limited quantity 5 L

Air transport (ICAO-IATA / DGR)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard		14.6. Special	

class(es)		precautions for user	Special provisions	A97
			Cargo Only Packing	
			Instructions	964
			Cargo Only Maximum	
			Qty / Pack	450L
			Passenger and Cargo	
			Packing Instructions	964
			Passenger and Cargo	
			Maximum Qty / Pack	450L
			Passenger and Cargo	
			Limited Quantity	Y964
			Packing Instructions	
			Passenger and Cargo	
			Maximum Qty / Pack	30KG G

Sea transport (IMDG-Code / GGVSee)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	9 IMDG Subrisk None	14.6. Special precautions for user	EMS Number F-A,S-F Special provisions 274 335 Limited Quantities 5 L

Inland waterways transport (ADNR / River Rhine)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	9 ADNR Label 9	14.6. Special precautions for user	Classification code M6 Limited Quantities LQ7 Equipment required PP Fire cones number 0

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

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

Regulations for ingredients

propylene glycol (CAS: 57-55-6) is found on the following regulatory lists;

"Europe Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food -Annex I: Substances", "Europe SCCNFP First Update of the Inventory of Ingredients Employed in Cosmetic Products - Section II: Perfume and Aromatic Raw Materials", "Europe Substances Listed in EU Directives on Plastics in Contact with Food", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "OSPAR National List of Candidates for Substitution - Norway", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Land Prescribed Substances", "UK Workplace Exposure Limits (WELs)", "United Nations Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments"

Carbon Black (**CAS: 1333-86-4**) is found on the following regulatory lists;

"EU Commission Banned Hair Dye Substances", "EU Cosmetic Directive 76/768/EEC Annex II: List of Substances which must not form part of the Composition of Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU List of 49 hair dye substances proposed for ban", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "OECD List of High Production Volume (HPV) Chemicals", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

titanium dioxide (CAS: 13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9) is found on the following regulatory lists;

"CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "EU approved additives", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of

Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU Cosmetic Directive 76/768/EEC Annex VI Part 1 List of Preservatives Allowed (German)", "EU Cosmetic Directive 76/768/EEC Annex VII Part 1 List of permitted UV filters which cosmetic products may contain (English)", "EU Cosmetic Directive 76/768/EEC Annex VII Part 1 List of permitted UV filters which cosmetic products may contain (German)", "Europe Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food - Annex I: Substances", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "UK Workplace Exposure Limits (WELs)"

glycerine (CAS: 56-81-5) is found on the following regulatory lists;

"Europe SCCNFP First Update of the Inventory of Ingredients Employed in Cosmetic Products - Section II: Perfume and Aromatic Raw Materials", "Europe Substances Listed in EU Directives on Plastics in Contact with Food", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "OSPAR National List of Candidates for Substitution - Norway", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances",

C.I. Pigment Red 122 (CAS: 980-26-7, 16043-40-6, 12225-00-2) is found on the following regulatory lists;

"EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "OECD List of High Production Volume (HPV) Chemicals", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Blue 15 (CAS: 147-14-8) is found on the following regulatory lists;

"EU Commission Banned Hair Dye Substances", "EU Cosmetic Directive 76/768/EEC Annex II: List of Substances which must not form part of the Composition of Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU List of 49 hair dye substances proposed for ban", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "OECD List of High Production Volume (HPV) Chemicals", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Violet 23 (CAS: 6358-30-1) is found on the following regulatory lists;

"EU Commission Banned Hair Dye Substances", "EU Cosmetic Directive 76/768/EEC Annex II: List of Substances which must not form part of the Composition of Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU List of 49 hair dye substances proposed for ban", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Green 7 (CAS: 1328-53-6) is found on the following regulatory lists;

"EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)",

C.I. Food Yellow #4 (CAS:1934-21-0) is found on the following regulatory lists;

"Chemwatch Candidate List of Very High Concern – List of Substance Subject to Authorization" . "European Union – European Inventory of Existing Commercial Chemical Substances (EINECS)(English) ", "OECD Representative List of High Production Volume(HPV) Chemicals"

C.I. Pigment Red 48:2 (CAS: 7023-61-2) is found on the following regulatory lists;

"European Union – European Inventory of Existing Commercial Chemical Substances (EINECS)(English) ", "OECD Representative List of High Production Volume(HPV) Chemicals"

No data for INKS for ink pad

SECTION 16: Other information

The (M)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.

For detailed advice on Personal Protective Equipment, refer to the following
EU CEN Standards: EN 16 Personal eye-protection
EN 340 Protective clothing
EN 374 Protective gloves against chemicals and micro-organisms
EN 13832 Footwear protecting against chemicals
EN 133 Respiratory protective devices

This is the end of MSDS

INKS FOR STAMPER & INK PAD

MSDS Material Safety Data Sheet(Conforms to Reg.(EC)No 1907/2006,Reg.(EC)No 1272/2008 and their amendments)

Print Date: 8-Jan-2016

Issue Date: 8-Jan-2016

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Inks for ink pad

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered company name: T. Stamp International Co Ltd

Email: sds@tstamp.com.hk

PRODUCT USE

Ink pad

SYNONYMS

"Inks in #01-Yellow , #02-Spring Green, #05-Light Pink, #15-Sky Blue, #20-Orange, #26-Orchid for ink pad"

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

DSD classification: In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) or CLP (Regulation (EC) No 1272/2008) regulations

DSD classification (additional): No data available

DPD classification: No data available

CLP classification: Chronic Aquatic Hazard Category 2

CLP classification (additional): No data available

2.2. Label elements

CLP label elements

Additional Statement(s): No data available

Supplementary statement(s): No data available

Precautionary statement(s): No data available

DSD / DPD label elements

Relevant risk statements are found in section 2.1

Indication(s) of danger: CONSIDERED A DANGEROUS MIXTURE ACCORDING TO DIRECTIVE 1999/45/EC AND ITS AMENDMENTS.

Safety advice:

- S29 Do not empty into drains.
- S40 To clean the floor and all objects contaminated by this material, use water.
- S35 This material and its container must be disposed of in a safe way.
- S57 Use appropriate container to avoid environmental contamination.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
- S60 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

No data available

PBT/vPvB criteria

No data available

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****Name****Classification according to (EC) No1272/2008 [CLP]**

1. 57-55-6

2. 200-338-0

3. No data available

4. No data available

propylene glycol

According to CLP no hazard category has been assigned

1. 56-81-5

2. 200-289-5

3. No data available

4. No data available

glycerine

According to CLP no hazard category has been assigned

1. 7023-61-2

2. 230-303-5

3. No data available

4. No data available

C.I. Pigment Red 48:2

According to CLP no hazard category has been assigned

1. 980-26-7

2. 213-561-3

3. No data available

4. No data available

C.I. Pigment Red 122

According to CLP no hazard category has been assigned

1. 1934-21-0

2. 217-699-5

3. No data available

4. No data available

C.I. Food Yellow #4

According to CLP no hazard category has been assigned

1. 1328-53-6

2. 215-524-7

3. No data available

4. No data available

C.I. Pigment Green 7

According to CLP no hazard category has been assigned

1. 147-14-8

2. 205-685-1

3. No data available

4. No data available

C.I. Pigment Blue 15

According to CLP no hazard category has been assigned

1. 6358-30-1

2. 228-767-9

3. No data available

4. No data available

C.I. Pigment Violet 23

According to CLP no hazard category has been assigned

1. 13463-67-7

2. 236-675-5, 215-280-1, 215-282-2

3. No data available

4. No data available

titanium dioxide

According to CLP no hazard category has been assigned

SECTION 4: First aid measures**4.1. Description of first aid measures****General:**

No data available

- Ingestion:**
1. Immediately give a glass of water.
 2. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
- Eye Contact:** If this product comes in contact with eyes:
1. Wash out immediately with water.
 2. If irritation continues, seek medical attention.
 3. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
- Skin Contact:** If skin or hair contact occurs:
1. Flush skin and hair with running water (and soap if available).
 2. Seek medical attention in event of irritation.
- Inhalation:** If fumes, aerosols or combustion products are inhaled remove from contaminated area.
Other measures are usually unnecessary.

4.2. Most important symptoms and effects, both acute and delayed

- 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. Exposure to aliphatic alcohols with more than 3 carbons may produce central nervous system effects such as headache, dizziness, drowsiness, muscle weakness, delirium, CNS depression, coma, seizure, and neurobehavioural changes. Symptoms are more acute with higher alcohols. Inhalation hazard is increased at higher temperatures.
- Not normally a hazard due to non-volatile nature of product
- Ingestion:**
- Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).
- Skin Contact:**
- The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
- A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts. However the material may be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as part of a cream, other topical application or by prolonged contact with clothing accidentally wetted by the material. Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man. 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:**
- Although the material 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).
- Chronic:**
- Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

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

Treat symptomatically.

1. Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
2. Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
3. Treatment consists of supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Propylene glycol is primarily a CNS depressant in large doses and may cause hypoglycaemia, lactic acidosis and seizures.

The usual measures are supportive care and decontamination (Ipecac/ lavage/ activated charcoal/ cathartics), within 2 hours of exposure should suffice.

Ellenhorn and Barceloux: Medical Toxicology

SECTION 5: Firefighting measures

5.1. Extinguishing media

Chemical solvent fires need to be smothered with sand, inert dry powders. **DO NOT USE WATER, CO₂ or FOAM.**

1. Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1 or Met L-X to smother fire.
2. Confining or smothering material is preferable to applying water as chemical reaction may produce flammable and explosive hydrogen gas.
3. **DO NOT** use halogenated fire extinguishing agents.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility:

1. Reacts with acids producing flammable / explosive hydrogen (H₂) gas
2. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters

Fire Fighting:

1. Alert Fire Brigade and tell them location and nature of hazard.
2. Wear full body protective clothing with breathing apparatus.
3. Prevent, by any means available, spillage from entering drains or water course.
4. Use water delivered as a fine spray to control fire and cool adjacent area.

Fire/Explosion Hazard:

DO NOT disturb burning dust. Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal.

DO NOT use water or foam as generation of explosive hydrogen may result.

Combustion products include:

carbon dioxide (CO₂)

other pyrolysis products typical of burning organic material

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Protective Equipment: Gloves, boots (chemical resistant). Breathing apparatus.

Minor Spills: Environmental hazard - contain spillage.

1. Clean up all spills immediately.
2. Avoid breathing vapours and contact with skin and eyes.
3. Control personal contact with the substance, by using protective equipment.
4. Contain and absorb spill with sand, earth, inert material or vermiculite.

Major Spills: Environmental hazard - contain spillage.

Chemical Class: alcohols and glycols

For release onto land: recommended sorbents listed in order of priority.

Moderate hazard

1. Clear area of personnel and move upwind.
2. Alert Fire Brigade and tell them location and nature of hazard.
3. Wear breathing apparatus plus protective gloves.
4. Prevent, by any means available, spillage from entering drains or water course.

6.2. Environmental precautions

Not applicable

6.3. Methods and material for containment and cleaning up

Not applicable

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling**
1. **DO NOT** allow clothing wet with material to stay in contact with skin.
 2. Avoid all personal contact, including inhalation.
 3. Wear protective clothing when risk of exposure occurs.
 4. Use in a well-ventilated area.
 5. Prevent concentration in hollows and sumps.

Fire and explosion protection See section 5

- Other information**
1. Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.
 2. Store in original containers.
 3. Keep containers securely sealed.
 4. Store in a cool, dry, well-ventilated area.
 5. Store away from incompatible materials and foodstuff containers.

7.2. Conditions for safe storage, including any incompatibilities

- Suitable container:**
1. Metal can or drum
 2. Packaging as recommended by manufacturer.
 3. Check all containers are clearly labelled and free from leaks.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Derived No Effect Level (DNEL)

Exposure Pattern	Workers	General Population	Exposure Pattern	Workers	General Population
Long term - dermal, systemic effects	No data available	No data available	Short term - dermal, systemic effects	No data available	No data available
Long term - inhalation, systemic effects	No data available	No data available	Short term - inhalation, systemic effects	No data available	No data available
Long term - oral, systemic effects	No data available	No data available	Short term - oral, systemic effects	No data available	No data available
Long term - dermal, local effects	No data available	No data available	Short term - dermal, local effects	No data available	No data available
Long term - inhalation, local effects	No data available	No data available	Short term - inhalation, local effects	No data available	No data available

8.2. Exposure controls

8.2.1. Personal protection

- Eye and face protection:**
1. Safety glasses with side shields
 2. Chemical goggles.

3. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens 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]

Skin protection: See Hand protection: below

Hand protection: Wear general protective gloves, eg. light weight rubber gloves.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

1. frequency and duration of contact,
2. chemical resistance of glove material,
3. glove thickness and
4. dexterity

Body protection: See Other protection: below

Other protection: No special equipment needed when handling small quantities.

OTHERWISE:

1. Overalls
2. Barrier cream
3. Eyewash unit

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

Thermal hazards: No data available

Recommended material (s): Not applicable

8.2.2. Environmental exposure controls

See section 12

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured
Odour	No data available
Odour threshold	No data available
Taste	No data available
pH (1% solution)	6.8
pH (as supplied)	7
Melting point / freezing point ()	-40
Initial boiling point and boiling range ()	>200
Flash point ()	230
Evaporation rate	Not Available
Flammability	No data available
Vapour pressure (kPa)	Not Available
Vapour density (Air = 1)	Not Available
Relative density (Water = 1)	1.01
Solubility in Water (g/L)	Miscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature ()	371

Critical temperature ()	Not Available
Viscosity (cSt)	Not Available
Explosive properties	No data available
Oxidising properties	No data available
Physical state	Liquid
Upper Explosive Limit (%)	Not Available
Lower Explosive Limit (%)	Not Available
Surface Tension	No data available
Volatile Component (%vol)	Not Available
Gas group	No data available
Molecular weight (g/mol)	Not Available
Evaporation Rate (BuAc = 1 EtAc = 1 Ether= 1)	Not Available
IUCLID Remarks	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity	See section 7.2
10.2. Chemical stability	<ol style="list-style-type: none"> 1. Presence of incompatible materials. 2. Product is considered stable. 3. 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

Mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: No data available

STOT - single exposure: No data available

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances. No significant acute toxicological data identified in literature search. 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. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterized by skin redness (erythema) and swelling the epidermis. None assigned. Refer to individual constituents.

SECTION 12: Ecological information

12.1. Toxicity

Fish: No data available

Daphnia Magna: No data available
Algae: No data available
Toxic to aquatic micro-organisms: No data available

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil
Inks for ink pad	No Data Available
propylene glycol	LOW
glycerine	LOW
C.I. Pigment Green 7	No Data Available
titanium dioxide	No Data Available
C.I. Pigment Red 122	No Data Available
C.I. Food Yellow #4	No Data Available
C.I. Pigment Blue 15	No Data Available
C.I. Pigment Red 48:2	No Data Available
C.I. Pigment Violet 23	No Data Available

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
Inks for ink pad	LOW
propylene glycol	LOW
glycerine	LOW
C.I. Pigment Green 7	LOW
titanium dioxide	LOW
C.I. Pigment Red 122	LOW
C.I. Food Yellow #4	LOW
C.I. Pigment Blue 15	LOW
C.I. Pigment Red 48:2	LOW
C.I. Pigment Violet 23	LOW

12.4. Mobility in soil

Ingredient	Mobility
Inks for ink pad	High
propylene glycol	High
glycerine	High
C.I. Pigment Green 7	LOW
titanium dioxide	LOW
C.I. Pigment Red 122	LOW
C.I. Food Yellow #4	LOW
C.I. Pigment Blue 15	LOW
C.I. Pigment Red 48:2	LOW
C.I. Pigment Violet 23	LOW

12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	No data available	No data available	No data available

PBT and vPvB Criteria fulfilled?

No data available

No data available

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal:

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

A Hierarchy of Controls seems to be common - the user should investigate:

1. Reduction
2. **DO NOT** allow wash water from cleaning or process equipment to enter drains.
3. It may be necessary to collect all wash water for treatment before disposal.
4. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
5. Where in doubt contact the responsible authority.
6. Recycle wherever possible or consult manufacturer for recycling options.
7. Consult State Land Waste Authority for disposal.
8. Bury or incinerate residue at an approved site.
9. Recycle containers if possible, or dispose of in an authorised landfill.

Waste treatment

options:

Sewage disposal

options:

No relevant data

Other disposal

recommendations:

SECTION 14: Transport information

Labels Required: MISCELLANEOUS

Land transport (ADR / RID / GGVSE)

No data available

14.1. UN number

3082

14.4. Packing group

III

14.2. UN proper

Shipping name:ENVIRONMENTALLY

14.5. Environmental

shipping name

HAZARDOUS SUBSTANCE, LIQUID, N.O.S

hazard

No relevant data

14.3. Transport hazard

14.6. Special

class(es)

precautions for user

Hazard identification

(Kemler) 90

Classification Code M6

Hazard Label 9

Special provisions 274 335 601

Add limited quantity 5 L

Air transport (ICAO-IATA / DGR)

No data available

14.1. UN number

3082

14.4. Packing group

III

14.2. UN proper

Shipping name:ENVIRONMENTALLY

14.5. Environmental

shipping name

HAZARDOUS SUBSTANCE, LIQUID, N.O.S

hazard

No relevant data

14.3. Transport hazard

14.6. Special

class(es)

precautions for user

Special provisions

A97

Cargo Only Packing

Instructions	964
Cargo Only Maximum Qty / Pack	450L
Passenger and Cargo Packing Instructions	964
Passenger and Cargo Maximum Qty / Pack	450L
Passenger and Cargo Limited Quantity Packing Instructions	Y964
Passenger and Cargo Maximum Qty / Pack	30KG G

Sea transport (IMDG-Code / GGVSee)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	9 IMDG Subrisk None	14.6. Special precautions for user	EMS Number F-A,S-F Special provisions 274 335 Limited Quantities 5 L

Inland waterways transport (ADNR / River Rhine)

No data available

14.1. UN number	3082	14.4. Packing group	III
14.2. UN proper shipping name	Shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	9 ADNR Label 9	14.6. Special precautions for user	Classification code M6 Limited Quantities LQ7 Equipment required PP Fire cones number 0

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

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

Regulations for ingredients

propylene glycol (CAS: 57-55-6) is found on the following regulatory lists;

"Europe Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food -Annex I: Substances", "Europe SCCNFP First Update of the Inventory of Ingredients Employed in

Cosmetic Products - Section II: Perfume and Aromatic Raw Materials", "Europe Substances Listed in EU Directives on Plastics in Contact with Food", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "OSPAR National List of Candidates for Substitution - Norway", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Land Prescribed Substances", "UK Workplace Exposure Limits (WELs)", "United Nations Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments"

titanium dioxide (CAS: 13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9) is found on the following regulatory lists;

"CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "EU approved additives", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU Cosmetic Directive 76/768/EEC Annex VI Part 1 List of Preservatives Allowed (German)", "EU Cosmetic Directive 76/768/EEC Annex VII Part 1 List of permitted UV filters which cosmetic products may contain (English)", "EU Cosmetic Directive 76/768/EEC Annex VII Part 1 List of permitted UV filters which cosmetic products may contain (German)", "Europe Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food - Annex I: Substances", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "UK Workplace Exposure Limits (WELs)"

glycerine (CAS: 56-81-5) is found on the following regulatory lists;

"Europe SCCNFP First Update of the Inventory of Ingredients Employed in Cosmetic Products - Section II: Perfume and Aromatic Raw Materials", "Europe Substances Listed in EU Directives on Plastics in Contact with Food", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing

Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Fragrance Ingredients (Perfume and Aromatic Raw Materials)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "OSPAR National List of Candidates for Substitution - Norway", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances",

C.I. Pigment Red 122 (CAS: 980-26-7, 16043-40-6, 12225-00-2) is found on the following regulatory lists;

"EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "OECD List of High Production Volume (HPV) Chemicals", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Blue 15 (CAS: 147-14-8) is found on the following regulatory lists;

"EU Commission Banned Hair Dye Substances", "EU Cosmetic Directive 76/768/EEC Annex II: List of Substances which must not form part of the Composition of Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU List of 49 hair dye substances proposed for ban", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Customs Inventory of Chemical Substances (English)", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO", "IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "OECD List of High Production Volume (HPV) Chemicals", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Violet 23 (CAS: 6358-30-1) is found on the following regulatory lists;

"EU Commission Banned Hair Dye Substances", "EU Cosmetic Directive 76/768/EEC Annex II: List of Substances which must not form part of the Composition of Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of

Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)", "EU List of 49 hair dye substances proposed for ban", "European Chemicals Agency (ECHA) List of Registered Phase-in Substances", "European Chemicals Agency (ECHA) List of Registered Substances", "European Chemicals Agency (ECHA) List of substances identified for registration in 2010", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) Directive 2008/1/EC concerning integrated pollution prevention and control, Annex III", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "UK The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 - Release into Air Prescribed Substances"

C.I. Pigment Green 7 (CAS: 1328-53-6) is found on the following regulatory lists;

"EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (Danish)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (English)", "EU Cosmetic Directive 76/768/EEC Annex IV Part 1: List of Colouring Agents Allowed for Use in Cosmetic Products (German)",

C.I. Food Yellow #4 (CAS:1934-21-0) is found on the following regulatory lists;

"Chemwatch Candidate List of Very High Concern – List of Substance Subject to Authorization" . "European Union – European Inventory of Existing Commercial Chemical Substances (EINECS)(English) ", "OECD Representative List of High Production Volume(HPV) Chemicals"

C.I. Pigment Red 48:2 (CAS: 7023-61-2) is found on the following regulatory lists;

"European Union – European Inventory of Existing Commercial Chemical Substances (EINECS)(English) ", "OECD Representative List of High Production Volume(HPV) Chemicals"

No data for INKS for ink pad

SECTION 16: Other information

The (M)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.

For detailed advice on Personal Protective Equipment, refer to the following
EU CEN Standards: EN 16 Personal eye-protection
EN 340 Protective clothing
EN 374 Protective gloves against chemicals and micro-organisms
EN 13832 Footwear protecting against chemicals
EN 133 Respiratory protective devices

This is the end of MSDS