

MATERIAL SAFETY DATA SHEET

According to REACH-directive 1907/2006

January 01, 2022

Version 7

Section 1: Identification of the substance/preparation and of the company/undertaking

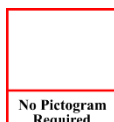
- 1.1 Product Name** : SILKFLEX PUMA PU WHITE PPW-1910
- 1.2 Product Code** : PPW-1910
- 1.3 Product Use** : Textile Printing Auxiliary
- 1.4.1 Manufacturer** : Silkflex Polymers Sdn. Bhd
No. 98, (Lot 9115), Jalan Tengah KS 10 Telok
Gong, 42000 Pelabuhan Klang
Selangor Darul Ehsan, Malaysia.
- 1.4.2 Emergency telephone Number** : +60-3-31341702/1703/1260.
- 1.4.3 Email** : lab@silkflexbd.com

Section 2: Hazards identification

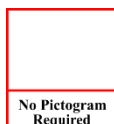
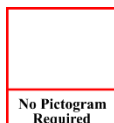
Substances presenting a health or environmental hazard within the meaning of the Dangerous Substance Directive 67/548/EEC and OSHA Hazard communication, 29 CFR 1910.1200

Classification According to Regulation (EC) no. 1272/2008:

Not a hazardous substance or mixture according to the Dangerous Substance Directive 67/548/EEC and OSHA'S Hazard Communication Standard, 29 CFR 1910

Labeling according Regulation (EC) NO 1272/2008 (CLP):**Physical Chemical Hazard Label:****Health Hazard Label:**

WARNING

Environmental Hazard Label:**Transportation Hazard Label:**

GHS Hazard Statement:

- H305 : May be harmful if swallowed.
- H317 : May cause an allergic skin reaction.
- H320 : Cause eye irritation.
- H335 : May cause respiratory irritation

GHS Precautionary statement:

General Precautionary

- P101 : If medical advice is needed, have product container or label at hand.
- P102 : Keep out of reach of children.
- P103 : Read label before use.

Prevention Precautionary

- P262 : Do not get on eye, on skin or in clothing
- P264 : Wash ---- thoroughly after handling.
- P280 : Water gloves/protective clothing/eye protection.

Response Precautionary

- P301 + P330 + P331 : If swallowed, rinse mouths, don't induce vomiting.
- P302 + P352 : If on skin, wash with soap and water.
- P332 + P313 : If skin irritation occurs, get medical advice/attention.
- P305 + P351 + P338 : If on eye rinse, cautiously with water for several minutes & remove

contact lances if present

- P337 + P314 : If eye irritation persists, get medical advice/attention.

Storage Precautionary

- P402 + P404 : Store in a dry place, store in a closed container.
- P403 : Store in a well - ventilated area,
- P411 : Store at temperature not exceeding 50°C/122°F.

Disposal Precautionary

- P501 : Dispose of content/container according to local environmental quality Act & Regulatory.

Section 3: Composition/Information on ingredients

Chemical characterization description : Aqueous dispersion of acrylate polymer and pigment.

PRODUCT NAME			
SILKFLEX PUMA PU WHITE PPW-1910			
Composition	Chemical Type	CAS No.	% By Weight
Polymer	Acrylic	9003-01-4	40 - 60
	Titanium Dioxide	13463-67-7	20 - 30
Pigment	Silicate	7631-86-9	
	Others	Water	7732-18-5

Dangerous components: No special hazards have to be mentioned. Occupational Exposure limit (s), if available, are listed in section 8

Section 4: First aid measures

4.1 General

: In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person.

- 4.2 Inhalation** : Not applicable. Water-based and non-hazardous vapor.
- 4.3 Eye contact** : Immediately irrigate copiously with clean water for 5-10 minutes, keeping eyelids open. Seek medical attention if irritation persists.
- 4.4 Skin Contact** : Remove contaminated clothes. Wash skin thoroughly with soap and water or use a suitable skin cleaner. DO NOT use solvent or thinners.
- 4.5 Ingestion** : Keep person warm and at rest. DO NOT induce vomiting. If washing hold down the head to reduce the risk of getting stomach content into the lungs. Obtain medical attention unless only an insignificant amount has been swallowed.

Section 5: Fire fighting measures

- 5.1 Suitable extinguishing media** : The wet inks are not flammable. For dry inks, in case of fire, use water spray (fog), foam, dry chemicals or CO₂. Closed containers may be cooled with water spray.
- 5.2 Unsuitable extinguishing media** : Not applicable.
- 5.3 Hazardous thermal (decomposition product)** : Refer to MSDS Section 10.

Section 6: Accidental release measures

- 6.1 Personal precautions** : Avoid contact with skin and eyes. Avoid inhalation of vapors. Refer to protective measures listed in sections 7 and 8.
- 6.2 Spill** : Prevent entry into sewers, basements or confined areas, dike etc. Put the spilled material in an appropriate waste disposal.

Section 7: Handling and storage

- 7.1 Handling** : Avoid contact with skin and eyes. Avoid excessive inhalation of vapor. Eating and drinking should not be in area where this product is handled. Personal Protective Equipment, see section 8. Keep away from incompatibles in section 10.
- 7.2 Storage** : Keep container tightly closed. Store in a dry, cool and well ventilated area. Storage temperature: refer to the Technical Data Sheet. Keep away from incompatibles mentioned in section 10.
- 7.3 Packaging material** : Always keep in containers made from the same material as the original one.

Section 8: Exposure control/personal protection

- 8.1 Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapors below their respective Occupational Exposure limits. Ensure that eye wash station and safety showers are close to the workstation location.

8.2 Hygiene measure

: Wash hands, forearms and face thoroughly after handling and before eating, smoking, using lavatory, and at the end of the day. Always immediately wash contaminated skin. Apply a suitable skin lotion.

8.3 Personal protection equipment**8.3.1 Respiratory system**

: Wear appropriate respirator when ventilation is inadequate.

8.3.2 Eyes

: Wear safety goggles or other suitable protective equipment if there is a risk of contact.

8.3.3 Skin and body

: Wear suitable protective clothing.

8.3.4 Hands

: Wear suitable gloves

Section 9: Physical and chemical properties

9.1 Form

: High viscosity paste

9.2 Physical appearance

: White

9.3 Smell

: Characteristic

9.4 Viscosity at 27°C

: 270 to 310 gram (Modified Stormier Viscometer measurement at 200 rpm.

9.5 Density at 27°C

: 1.19 g/cm³

9.6 pH value at 27°C

: 7.0-9.5

9.7 Solubility

: Dispersible in Water

9.8 Flash point

: Not applicable (water-based)

9.9 Auto ignitions temperature

: Not applicable (water-based)

9.10 Explosion limits

: Not applicable (water-based)

Section 10: Stability and reactivity

- 10.1 Stability** : The product is stable under recommended storage conditions-see section 7.
- 10.2 Reactivity** : No reactive to oxidizing agents.
- 10.3 Hazardous thermal decomposition products** : Toxic gases of carbon monoxide and carbon dioxide (Co, Co₂) are generated by combustion.

Section 11: Toxicological information

- 11.1 Inhalation** : In poorly ventilated places, inhalation of vapor may cause irritation of the respiratory system.
- 11.2 Eye contact** : Can cause irritation and temporary damage if splashes come in contact with the eye.
- 11.3 Skin Contact** : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis.
- 11.4 Ingestion** : Ingestion may cause stomach pains and vomiting
- 11.5 Toxicity:**
- LD/50 test for oral toxicity** : No toxic symptoms were observed and none of the tested mice died during 14 days after the dose LD50 obtained is more than 2000mg/kg. LD50 cut off value -5000mg/kg (GHS category 5 or unclassified).

Section 12: Ecological information

- 12.1 Bio-Degradability (OECD 301)**
Medium Activated sludge from Sewage Plant : Result: > 80%
- 12.2 Bio-Accumulation** : No Data Available
- 12.3 Mobility in Soil** : No Data Available
- 12.4 Fish Toxicity:**
LC50 test for aquatic toxicity : No death of fish (Brachydanio rerio) was observed in a static test system at a concentration level of 100mg/L for a period of 96 hours.
- 12.5 Bacteria Toxicity:**
EC50 test for aquatic toxicity : No Data available.
- 12.6 Ecotoxicity** : Last of all Complies with GOTS, REACH and Oeko-Tex.

Section 13: Disposal considerations

- 13.1 European Waste Catalogue (EWC)** : 080112
- 13.2 Hazardous Waste** : To the present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

13.3 Methods of disposal

: Do not allow to enter drains or water course. Ship for treatment/ disposal in accordance with local regulations.

Section 14: Transport information**14.1 UN Class**

: Out of regulation

14.2 Un Number

: Out of regulation

14.3 Packing group

: Out of regulation

14.4 Particulars Safety measures and Mode/Conditions for transportation

: Can be shipped by Air / Sea / Rail. Regarding transportation, after make sure of no leakage of the containers, load them in a way of avoiding falling-down, dropping and being damaged with secure prevention of cargo collapse. Handling should be according to the description of section 7.

14.5 IATA Regulation

: Not regulated
(Remark: Non – dangerous Goods (Water-Based))

Section 15: Regulatory information**15.1 Classification of Risk Phrases**

: This product is not classified according to the EU regulations

15.2 Classification Safety Phrases

: Not applicable.

15.3 Additional warning

: Safety Date Sheet available for professional user on request.

15.4 Restriction to market directive

: Not applicable.

Section 16: Other information**Comment**

: This product is free of glycol.

The information in this brochure has been compiled in accordance to our best knowledge at the date of issue and is based on recent technological and scientific developments. However, this information should not be construed as recommending the use of our product in violation of any patent or as warranties (express or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests and studies to determine the fitness of Silkflex products for their particular purposes and specific applications. Due to the varying techniques and conditions applied, Silkflex accepts no responsibility for any use of the product, by way of experiment or manufacture nor does Silkflex accept any responsibility for the used techniques in any application whatsoever. Silkflex does not warrant against infringement of patents of third parties by reason of any uses purchasers make of the product.

*Silkflex: Silkflex Polymers Sdn. Bhd.