

## PU HM White Safety Data Sheet

This safety data sheet has been prepared according to European Chemical Agency (ECHA) Reach Compliance (EC) No 1907/2006 with amendment Regulation (EU) 2020/878 and CLP Regulation, EC 1272/2008  
Issue date: 04.08.2025 Revision date: 04.08.2025 Version: 7

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

#### 1.1. Product Identifier

**Product Name :** PU HM White

**Product Usage :** White printing paste for elastic and soft touching effect in textile printing

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

##### 1.2.1. Relevant identified uses

**Main Use Category :** Industrial use

##### 1.2.2. Uses advised against

**Restriction on Use :** For professional use only, Not for domestic use

#### 1.3. Details of the supplier of the safety data sheet

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#### 1.4. Emergency telephone number

**Emergency Number :** +9 0539 570 38 50

### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

**Hazard Pictograms**  
**Signal words (SEA)** : GHS07, warning



#### Classification according to Regulation (EC) No. 1272/2008 [CLP] :

For the classifications not written out in full in this section the full text can be found in section 16.

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. May cause an allergic eye and skin reaction.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**P270** : Do not eat, drink or smoke when using this product.

**P280** : Wear protective gloves/protective clothing/eye protection/face protection.

**P264** : Wash skin thoroughly after handling wash with plenty of soap and water.

**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

**P332+P313** : If skin irritation occurs: Get medical advice/attention.

**P362+P364** : Take off contaminated clothing and wash it before reuse.

**P501** Dispose of contents/container in accordance with national regulation by licenced

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**EUH210** : Safety data sheet available on request

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances Not applicable

Not applicable

### 3.2. Mixtures

**Comments** : Water to 100%

Component	Component Identifier	% Concentration	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyurethane dispersion, special mix [Reach Reg: Preregistered substances]	CAS-No : -- EC-No : --	30-50 %	Not Classified
Titanium dioxide [Reach Reg: 01-2119489379-17-XXXX]	Cas no : 1317-80-2 Ec No : 215-282-2	25-35 %	Not Classified
Propylene glycol [Reach reg.: 01-2119456809-23-XXXX]	Cas No : 57-55-6 EC No : 200-338-0	15-30 %	Not classified
Fatty alcohol polyglycol ether aqueous solution	CAS-No : -- EC-No : --	1-2 %	
Water	Cas No : 7732-18-5 EC No : 231-791-2	balanced	--

Full text of H-P statements: see section 16

## SECTION 4: First Aid Measures

### 4.1. Description of first aid measures

**First-aid measures after inhalation** : Remove person to fresh air and keep comfortable for breathing.

**First-aid measures after skin contact** : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

**First-aid measures after eye contact** : Rinse eyes with water as a precaution.

**First-aid measures after ingestion** : Call a poison center or a doctor if you feel unwell.

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

**Symptoms/effects after skin contact** : May cause an allergic eye and skin reaction

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

Treat symptomatically.

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### SECTION 5: Firefighting Measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :

Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting :

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures :

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### 6.1.2. For emergency responders

Protective equipment :

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection"

#### 6.2. Environmental precautions

Avoid release to the environment. Dispose of contents/container in accordance with national regulation by licenced firms

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13

### SECTION 7: Handling and Storage

#### 7.1. Precautions for safe handling

Precautions for safe handling :

Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures :

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control parameters

No additional information available

#### Occupational Exposure controls / personal protection:

**Titanium dioxide** : TWA (8 hours) : 15 mg/ m<sup>3</sup>

#### 8.2. Exposure controls

**Appropriate engineering controls** : Ensure good ventilation of the work station

**Hand protection** : Protective gloves

**Eye protection** : Safety glasses

**Skin and body protection** : Wear suitable protective clothing

**Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s)** :



#### Environmental exposure controls :

Avoid release to the environment. If there is spillage, use general purpose absorbent/chemical kit for absorb the contaminated area. Do not empty into drains, prevent to contaminated other chemicals. Wash the contaminated area. Get informed the Authorities immediately.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	:	Pasta
<b>Colour</b>	:	White
<b>Odour</b>	:	Characteristic
<b>Particle properties</b>	:	>20000 nm, Not classified as nanoform
<b>pH</b>	:	8.0 - 8.5
<b>Melting point</b>	:	No data available
<b>Freezing point</b>	:	No data available
<b>Boiling point</b>	:	> 100 °C
<b>Flash point</b>	:	> 100 °C
<b>Auto-ignition temperature</b>	:	No data available
<b>Decomposition temperature</b>	:	No data available
<b>Flammability (solid, gas)</b>	:	Non flammable.
<b>Vapour pressure</b>	:	No data available
<b>Relative vapour density at 20 °C</b>	:	No data available
<b>Relative density</b>	:	1.2 g/cm <sup>3</sup>
<b>Solubility</b>	:	Mixable in all ratio
<b>Partition coefficient n-octanol/water (Log Pow)</b>	:	< 4
<b>Viscosity, kinematic</b>	:	No data available
<b>Viscosity, dynamic, 20 °C</b>	:	[(77°F/25°C) sp:7,rpm:20 Brookfield] : 90.000 – 110.000 [mPa.s]
<b>Explosive properties</b>	:	Not explosive

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**Oxidising properties** : Not oxidising  
**Explosive limits** : No data available

### 9.2. Other information

**Solid Content** : No data available  
**Miscibility with water** : Miscible

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicological information of the product:

**Acute toxicity (oral)** : LD50 > 5.000 ppm (oral, male, rats), Acute Toxicity Estimates (ATE)  
**Acute toxicity (dermal)** : No data available  
**Acute toxicity (inhalation)** : Not classified  
**Skin corrosion/irritation** : If the product contaminated with skin and it is not removed, irritation may occur when it dries.  
**Serious eye damage/irritation** : If the product contaminated with eyes, immediately rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical help when needed.  
**Respiratory or skin sensitisation** : Not classified  
**Germ cell mutagenicity** : Not classified  
**Carcinogenicity** : Not classified  
**Reproductive toxicity** : Not classified  
**STOT-single exposure** : Not classified  
**STOT-repeated exposure** : Not classified  
**Aspiration hazard** : Not classified  
**Polyurethane** : LD<sub>50</sub> > 2000 mg/kg (Oral) (Method: OECD Test guide 423)

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**Propylene glycol** : LD50 : 20.000 mg/kg (oral, rat); LD50 : 20.800 mg/kg (dermal, rat )

**Titanium dioxide** : LD50 > 5.000mg/kg (Oral, male and female)

### 11.2. Information on Other Hazards :

It does not classified as an endocrine disruptor

## SECTION 12: Ecological Information

**12.1. Toxicity** : Toxicity values have been provided by ECHA

**Ecology - general** : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Acute toxicity - fish** : LC50>125 mg/l (96 hours, fish) OECD Test No:203

EC50> 1000 mg/l ( 48 hours, Dafnia) DIN 3842 Part L8; aquatic invertebrates

IC50, >1000 mg/l ( 72 hours, Algae) OECD Test No:209; aquatic plants

**Titanium dioxide:** Toxicity on the fish LC<sub>50</sub> > 1.000 mg/l (96h, other fish)

Toxicity to Daphnia and other aquatic invertebrates

EC<sub>50</sub>> 1.000 mg/l(48 h, Daphnia magna (sweet bay)

**Hazardous to the aquatic environment, short-term (acute)** : Not classified

**Hazardous to the aquatic environment, long-term (chronic)** : Not classified

LC50 fish 1 : > 100 mg/l By analogy

### 12.2. Persistence and degradability

**Biodegradation** : Biodegradable : 82 % ve >10 mg/l (OECD Test Guide 301 C) by ECHA

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

According to Annex XIII Regulation EC No 1907/2006 (Reach), This product doesn't contain material which as PBT or vPvB

### 12.6. Endocrine Disrupting Properties

It does not classified as an endocrine disruptor

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

**Waste treatment methods** :

Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport Information

In accordance with ADR / RID / IMDG / IATA / ADN

	ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>	UN -	UN -	UN -	UN -	UN -
<b>14.2. UN proper shipping name</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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### 14.3. Transport hazard class(es)

Not applicable

Not applicable

Not applicable

Not applicable

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<b>14.4. Packing group</b>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>	Please see Section 'Environmental exposure controls'				
No supplementary information available					

### 14.6. Special precautions for user

<b>Overland transport</b>	:	Not applicable
<b>Transport by sea</b>	:	Not applicable
<b>Air transport</b>	:	Not applicable
<b>Inland waterway transport</b>	:	Not applicable
<b>Rail transport</b>	:	Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments :

Not applicable

## SECTION 15: Regulatory Information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

The classification, labelling and packaging of substances and mixtures of T.C. Republic of Turkey Ministry of Environment and Urbanisation (Date: 13 December 2014, Register no: 29204, CLP Regulation, EC 1272/2008)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other Information

### Abbreviations and acronyms:

<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ATE</b>	Acute Toxicity Estimate
<b>BLV</b>	Biological limit value
<b>CAS No</b>	Chemical Abstract Service number
<b>CLP</b>	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
<b>DMEL</b>	Derived Minimal Effect level
<b>DNEL</b>	Derived-No Effect Level
<b>EC50</b>	Median effective concentration
<b>EC No</b>	European Community number

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<b>EN</b>	European Standard
<b>IATA</b>	International Air Transport Association
<b>IMDG</b>	International Maritime Dangerous Goods
<b>LC50</b>	Median lethal concentration
<b>LD50</b>	Median lethal dose
<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>NOAEL</b>	No-Observed Adverse Effect Concentration
<b>NOEC</b>	No-Observed Adverse Effect Level
<b>OEL</b>	No-Observed Effect Concentration
<b>PBT</b>	Persistent Bioaccumulative Toxic
<b>PNEC</b>	Predicted No-Effect Concentration
<b>REACH</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>SDS</b>	Safety Data Sheet
<b>vPvB</b>	Very Persistent and Very Bioaccumulative
<b>WGK</b>	Water Hazard Class

### Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not Classified

### Full text of H- P and EUH-statements:

- H315** : Causes skin irritation  
**H319** : Causes serious eye irritation  
**P270** : Do not eat, drink or smoke when using this product.  
**P280** : Wear protective gloves/protective clothing/eye protection/face protection.  
**P264** : Wash skin thoroughly after handling wash with plenty of soap and water.  
**P362** : Take off contaminated clothing and wash before reuse  
**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
**P333+P313** : If skin irritation or a rash occurs: Get medical advice/attention.  
**P362+P364** : Take off contaminated clothing and wash it before reuse.  
**P501** Dispose of contents/container in accordance with national regulation by licenced  
**EUH210** : Safety data sheet available on request

### Alv Kimya SDS EU (REACH Annex II) :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.