

PU LM 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 LM 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
Ethylene glycol [Reach Reg: 01-2119456816-28-XXXX]	Cas No : 107-21-1 EC No : 203-473-3	1-2,5 %	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/ m³

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

Physical state	:	Pasta
Colour	:	White
Odour	:	Characteristic
Particle properties	:	>20000 nm, Not classified as nanoform
pH	:	8.0 - 9.0
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 100 °C
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	1.2 g/cm ³
Solubility	:	Mixable in all ratio
Partition coefficient n-octanol/water (Log Pow)	:	< 4
Viscosity, kinematic	:	No data available
Viscosity, dynamic, 20 °C	:	[(77°F/25°C) sp:7,rpm:20 Brookfield] : 90.000 – 110.000 [mPa.s]
Explosive properties	:	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 : LD₅₀ > 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 LC₅₀ > 1.000 mg/l (96h, other fish)

Toxicity to Daphnia and other aquatic invertebrates

EC₅₀> 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
14.1. UN number	UN -	UN -	UN -	UN -	UN -
14.2. UN proper shipping name	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

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

14.6. Special precautions for user

Overland transport	:	Not applicable
Transport by sea	:	Not applicable
Air transport	:	Not applicable
Inland waterway transport	:	Not applicable
Rail transport	:	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:

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

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

