

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: 23.05.2023 Revision date: 22.05.2023; Version: 4

Commercial Name : PU HM White

SDS No : 203

1. PRODUCT & COMPANY IDENTIFICATION :

| 1.1. Product Name | : | PU HM White | |
|--------------------|---|---|--|
| 1.2. Product Usage | : | Polyurethane based white printing paste | |
| 1.3. Company Name | : | DAF Kimya İç ve Dış Tic. A.Ş. | |
| Address | : | Çobançeşme Mah. Sanayi Cad. Genç Osman 1 Sok. No:14 | |
| | | Bahçelievler/İSTANBUL | |
| | | | |

1.4. Details of the supplier of the safety data sheet :

| | | National Poison Center: 114 (for 24 hours) | |
|------------------------|-----|---|--|
| E- mail : | | info@inknovators.com | |
| 1.5. Emergency Phone : | | +9 0533 450 43 25 (7/24 hours) | |
| Phone | : | +9 0212 803 41 78 - 79 & 90 | |
| | | Bahçelievler/İSTANBUL | |
| Address | : | Çobançeşme Mah. Sanayi Cad. Genç Osman 1 Sok. No:14 | |
| Supplier Name | e : | DAF Kimya İç ve Dış Tic. A.Ş. | |

2. HAZARDS IDENTIFICATION :

2.1. Classification of substance and Mixture :

Physical Hazards : The product is not classified as harmful. It is not flammable

Health Hazards Harmful if swallowed. May cause sensitisation by eye contact, avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If the victim don't feel good, Seek medical attention immediately. Use for protection, suitable protective clothing, gloves and eye/face.

Environment Hazards : Do not empty into drains. Dispose of contents/container in accordance with national regulation by licenced firms

2.2. Label elements:

Labelling according Regulation (EC) No 1272/2008 :

Harmfulness Statements : It is given in Section 16.

Precautionary statements : EUH210 safety data sheet can be provided on request.

Pictogram : GHS07

2.3. Other Hazards : N/A

Prepared by Gül Altınsoy(01. 80.10)



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3. COMPOSITION INFORMATION on HAZARDOUS INGREDIENTS :

| Component | CAS No | EC No | Concentration (%) | Classification | Labeling |
|--|------------|-----------|-------------------|--|--|
| Polyurethane dispersion, special mix [Reach Reg: Preregistered substances] | 31075-20-4 | 608-577-6 | 30-50 % | Eye irrit. 2, H319 | P264, P280, P305+P351+P338, P337+P313P |
| Titanium dioxide [Reach Reg: 01- 2119489379-17- XXXX] | 1317-80-2 | 236-675-5 | 15-20% | No need for classification according to GHS criteria for this product | The product does not require a hazard warning label in accordance with GHS criteria. |
| Propylene glycol [[Reach Reg: 01- 2119456809-23- XXXX] | 57-55-6 | 200-338-0 | 15-30% | There is no classification according to EC Directive 1272/2008 | |
| Water | 7732-18-5 | 231-791-2 | Balanced | | |

4. FIRST AID MEASURES :

Inhalation: Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious. If the victim don't feel good, immediately call the National poison control center (phone: 114) Seek medical attention immediately.

Contact with Eyes : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

Contact with Skin : Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If redness or irritation occurs, seek medical attention.

Ingestion : Harmful if swallowed. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, to open the airway of victim's and for prevent aspire, lean to the left side if possible (head down). Immediately consult a doctor with the product label (if possible)

5. FIRE FIGHTING MEASURES :

Extinguishers : Dry powder, carbon dioxide, alcohol-resistant foam. Avoid contact with the water. **Special hazards arising from the substance or mixture :** Carbon oxides, nitrogen oxide



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Extinguishing media : In case of needed, follow the Emergency Plan and take quarantine to environment, remove the staff around.

Special fire fighting equipment : Use gas mask for respiration, leakproof chemical goggles against the splash, fireproof gloves, boots and flame protective clothing.

6. ACCIDENTAL RELEASE MEASURES :

Personal Precautions : Wear protective equipment. Immediately ventilate the contaminated area. Unprotected persons must move away from the contaminated area.

Environmental Precautions : 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.

Cleaning Methods : If possible, use chemical kit which is suitable to ingredient of this product. In case there is not a general-purpose absorbent / kit sure to absorb the chemical. Do not clean with water.

7. HANDLING and STORAGE :

Precautions for safe handling: Avoid spills. Don't Inhalation, avoid contact with eye and skin.

Usage : After use, especially when it comes into contact with the eyes and skin - your skin with plenty of water/wash your hands. (please see section 4) In case of needed, follow the Emergency Plan and take quarantine to environment, remove the staff around. No smoking.

Storage : This material and its container must be disposed of as hazardous waste . Keep container in a dry, cool well- ventilated place with original packaging . Take precautionary measures against static discharges. No smoking. It must be stored in accordance with the Legal laws. Attention should be paid to the warnings given on the label.,

8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Occupational Exposure controls / personal protection:

Propylene glycol : Acute /short term : No hazard identified

DNEL : 168 mg/m³, long-term repeated dose toxicity

Titanium dioxide : TWA (8 hours) : 15 mg/ m³

Engineering Measures : Well general ventilation should be used. Accumulated chemical level in the air to reduce the acceptable limit, use the exhaust ventilation and/or use other engineering controlls. General hygiene and safety rules should be applied. The working environment must be eye shower (wash) station.



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9.

Personal Protection Equipments :



| . PHYSICAL and CHEMICAL PROPERTIES : | | |
|--------------------------------------|--|--|
| Protection Hands | : Use Fire and chemical resistant clothes | |
| Protection Skin, Body | : May cause skin irritation and burns; use resistance gloves | |
| Protection Eye, face | : Protective goggles against the risk of splash | |
| Protection respiratory system | : Gas masks with suitable filters to the chemical. | |

9.1. General Informations :

| 9.1.1. Visual Appearance | :White, paste | | |
|--|---|--|--|
| 9.1.2. Odor | : Characteristic | | |
| 9.2. Important Health, Safety and Environental Information : | | | |
| рН | : 8.0 - 8.5 | | |
| Viscosity | : [(77°F/25°C) sp:7,rpm:20 Brookfield] : 85.000 – 100.000 [mPa.s] | | |
| Density | : 1,32 g/cm ³ (68 °F) | | |
| Boiling Point /Range | : >100°C (212°F) @(water) | | |
| Solubility | : Soluble in water | | |

10.STABILITY and REACTIVITY :

Stable under normal conditions, it is not reactive. Keep away from direct sunlight and keep it away from chemicals that are aggressive chemicals in the content. In case of overheating, can release chemical gases.

11.TOXICOLOGICAL INFORMATION :

Acute toxicity : LD₅₀ > 2.000 mg/kg(oral, male, rats) Acute Toxicity Estimates (ATE)

Polyurethane :

LD₅₀ > 2000 mg/kg (Oral) (Method: OECD Test guide 423)

Propylene glycol :

LD₅₀: 22.000 mg/kg (Rad, oral)



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LD₅₀: 20.800 mg/kg (dermal, rat)

Titanium dioxide :

LD₅₀ > 5.000mg/kg (Oral male and female)

Eye irritation rabbit Corrosive (US Classification) Sensitisation Delayed Contact Hypersensitivity guinea pig Causes sensitization.

Inhalation : May cause irritation and coughing

Contact with Skin : May cause irritation and cracking of the skin at long term effect

Contact with Eyes : May cause irritation therefore use suitable protective clothing, gloves, goggles, mask

Ingestion : In case of ingestion may cause harmfull.

12.ECOLOGICAL INFORMATION :

Ecotoxicity : Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheet

12.1. Toxicity : EC₅₀ > 1.000 mg/l (48 h, Daphnia magna (sweet bay) OECD Test Guideline 202

Titanium dioxide :

Toxicity on the fish $LC_{50} > 1.000 \text{ mg/l}$ (96 h, other fish)

Toxicity to Daphnia and other aquatic invertebrates

EC₅₀> 1.000 mg/l (48 h - Daphnia magna (sweet bay))- ECO - Daphnia magna (sweet bay) - 1.000 mg/l - 48 h

12.2. Persistence and degradability : Biodegradable : Result : 82 % - Easily soluble in nature (OECD Test Guide 301 C)

12.3. Bioaccumulative potential : This product doesn't make bioaccumulative

12.4. Mobility in Soil : Soluble in water. This product can spread in the aquatic media.

12.5. PBT and vPvB evaluation results : This product doesn't contain material which as PBT or vPvB

12.6. Other negative effects : Other adverse effects are unknown.

13. DISPOSAL CONSIDERATIONS :

Disposal/destruction :Waste of this product is sent to the recycling companies which are licenced from T.C. Republic of Turkey Ministry of Environment and Urbanisation with National Waste Form.

Waste Classification : European waste catalogue (ewc) code: 08 01 13 paint and varnish sludges containing organic solvents or other dangerous substances

14.TRANSPORT INFORMATION :

- ADR/RID : UN code : N/A, Classification : N/A
- **IMDG/IMO :** UN code : N/A, Classification : N/A

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IATA/ICAO : UN code : N/A, Classification : N/A

Packaging and transport information: The packaging must be closed tightly. keep it away from chemicals that are aggressive chemicals in the content.

Proposed special transport packaging : Determined by the manufacturer.

Environmental hazards: Environmentally hazardous/Marine pollutant.

Bulk carriage doesn't apply according to MARPOL 73/78, Annex II and IBC code.

15.REGULATORY INFORMATION :

15.1. Specific for the substance or mixture safety, health and environmental legislation :

National Legislations : Republic of Turkey Ministry of Environment and Urbanisation, 11 December 2013 on

classification, labelling and packaging of substances and mixtures legislation

European Directive: Regulation (EC) No 1272/2008, OJ L 353 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing

Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.

Guide: UNECE (United Nations Economic Comission for Europe) :

https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs_rev02/English/08e_annex4.pdf

ECHA (European Chemical Agency) :<u>http://echa.europa.eu/web/guest/regulations/clp</u>

16.OTHER INFORMATIONS :

Hazard Statements :

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary Statements :

P264 Wash skin thouroughly after handling wash with plenty of soap and water.

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

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

P362 Take off contaminated clothing and wash before reuse.

P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do – continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention.



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

Pictograms / Symboles :

GHS07, Warning



Additional Information :

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does n ot represent any guarantee of the properties of the product. Information of this safety data sheet is taken from UNECE (United Nations Economic Comission for Europe) and onyl for informational. The warnings are given on this safety data sheet is for use outside the manufacturer/distributor to direct/indirect can not be held responsible for any loss or damage.