



DAF Kimya İç ve Dış Ticaret A.Ş.  
Çobançeşme Mah. Sanayi Cad. Genç Osman 1 Sk. No:14  
Bahçelievler / İSTANBUL Trade Register No: 98265-5  
Phone: 0212 803 41 90  
E-mail : [info@inknovators.com](mailto:info@inknovators.com)

## 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 : Hybrid Metallic Silver**

**SDS No : 161**

### 1. PRODUCT & COMPANY IDENTIFICATION :

- 1.1. Product Name** : Hybrid Metallic Silver
- 1.2. Product Usage** : Water based printing base, pearl effect
- 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 :**
- Supplier Name** : DAF Kimya İç ve Dış Tic. A.Ş.
- Address** : Çobançeşme Mah. Sanayi Cad. Genç Osman 1 Sok. No:14  
Bahçelievler/İSTANBUL
- Phone** : +9 0212 489 70 70
- 1.5. Emergency Phone** : +9 0533 450 43 25 ( 7/24 hours )
- E- mail** : [info@inknovators.com](mailto:info@inknovators.com)
- National Poison Center: 114 ( for 24 hours )**

### 2. HAZARDS IDENTIFICATION :

#### 2.1. Classification of substance and Mixture :

**Physical Hazards** : The product is not classified as harmful.

**Health Hazards** : Harmful if swallowed. May cause eye irritation and skin irritation, avoid contact with eye and skin. 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, warning

#### 2.3. Other Hazards : N/A



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### 3. COMPOSITION INFORMATION on HAZARDOUS INGREDIENTS :

| Component   | CAS No    | EC No     | Concentration (%) | Classification                          | Labeling                               |
|---|-----------|-----------|-------------------|---|--|
| Hybrid polymer dispersion, special mix (water based)<br>[Reach Reg: pre-registered substance] | 9003-04-7 | --        | 45-55 %           | Eye Irrit. 2, H319<br>Skin İrit. 2 H315 | P264, P280, P305+P351+P338, P337+P313P |
| Ethylene glycol<br>[Reach Reg: 01-2119456816-28-XXXX]   | 107-21-1  | 203-473-3 | 1-3 %             | Acute Tox. 4 H302                       | P264, P270, P301+P312, P330, P501      |
| Water   | 7732-18-5 | 231-791-2 | 34-52%            | --                                      | --                                     |

### 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

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



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**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:**

Ethylene glycol: TWA (8 hours) : 20 ppm 52 mg/m<sup>3</sup>; STEL (15 min.) : 40 ppm 104 mg/m<sup>3</sup>

| DNEL (According to EC 1907/2006) |                 |                              |                      |
|----------------------------------|-----------------|------------------------------|----------------------|
| Application Area                 | Exposure Routes | Health Effect                | Value                |
| Employee                         | Inhalation      | Long lasting - local effect  | 35 mg/m <sup>3</sup> |
| Employee                         | Skin Contact    | Long lasting-systemic effect | 106 mg/kg BWd        |
| Consumer                         | Inhalation      | Long lasting - local effect  | 7 mg/m <sup>3</sup>  |
| Consumer                         | Skin Contact    | Long lasting-systemic effect | 53 mg/kg BWd         |

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| PNEC (According to EC 1907/2006) |            |
|----------------------------------|------------|
| Field                            | Value      |
| Soil                             | 1,53 mg/kg |
| Naval Water                      | 1 mg/l     |
| Water                            | 10 mg/l    |
| Marine Sediment                  | 3,7 mg/kg  |
| Water Sediment                   | 37 mg/kg   |
| Waste water treatment plant      | 199,5 mg/l |

**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 controls. General hygiene and safety rules should be applied. The working environment must be eye shower (wash) station.



### Personal Protection Equipments :



**Protection respiratory system** : Gas masks with suitable filters to the chemical.

**Protection Eye, face** : Protective goggles against the risk of splash

**Protection Skin, Body** : May cause skin irritation and burns; use resistance gloves

**Protection Hands** : Use Fire and chemical resistant clothes

## 9. PHYSICAL and CHEMICAL PROPERTIES :

### 9.1. General Informations :

9.1.1. **Visual Appearance** : Silver paste

9.1.2. **Odor** : Characteristic

### 9.2. Important Health, Safety and Environmental Information :

**pH** : 7.5 - 8.5



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|                   |  |
|-------------------|--|
| <b>Viscosity</b>  | : [(77°F/25°C) sp:6,rpm:20 Brookfield] : 30.000 – 35.000 [mPa.s] |
| <b>Density</b>    | : 1,05 g/cm <sup>3</sup> (25°C / 77°F)                           |
| <b>Solubility</b> | : 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:** LD<sub>50</sub> > 2.000 mg/kg (oral, rat) Acute Toxicity Estimates (ATE)

#### Ethylene glycol :

LC<sub>50</sub>:18.500 mg/l (96 h,Oncorhynchus mykiss (rainbow trout ))

LC<sub>50</sub> > 10.000 mg/l (48 h,Leuciscus idus (gold Orpheus))- NOEC

Pimephales promelas (Carp puppy) - 32.000 mg/l - 7 d NOEC

Pimephales promelas (Carp puppy) - 39.140 mg/l - 96 h

Toxicity to Daphnia and other aquatic invertebrates

EC<sub>50</sub>:74.000 mg/l(24 h) - Daphnia magna (sweet bay) - NOEC - Daphnia (water flea) - 24.000 mg/l - 48 h

LC<sub>50</sub> :41.000 mg/l (48 h )- Daphnia magna (sweet bay)

#### Other Toxicology Information :

**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 harmful.

### 12.ECOLOGICAL INFORMATION :

**Ecotoxicity** : Do not empty into drains. Refer to special instructions/safety data sheet

#### 12.1. Toxicity

##### Plastifian, special mix :

Acut toxicity - fish : LC<sub>50</sub>>125 mg/l (96 hours, fish) OECD Test No:203

Acut toxicity - aquatic invertebrates: EC<sub>50</sub>> 1000 mg/l ( 48 hours, Dafnia) DIN 3842 Part L8

Acut toxicity - aquatic plants : IC<sub>50</sub>, >1000 mg/l ( 72 hours, Algae) OECD Test No:209

**12.2. Persistence and degradability** : Appropriate data are not available



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

**12.4. Mobility in Soil :** The product can be mixed with water. Can spread in the aquatic environment.

**12.5. PBT and vPvB evaluation results :** The product does not contain any substances classified 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

**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 Commission for Europe) :

[https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs\\_rev02/English/08e\\_annex4.pdf](https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs_rev02/English/08e_annex4.pdf)

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



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### 16.OTHER INFORMATIONS :

#### Hazard Statements :

**H302** Harmful if swallowed.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

#### Precautionary Statements :

**P264** Wash skin thoroughly 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.

**P332 + P313** IF SKIN irritation occurs: Get medical advice/attention.

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

#### 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 not represent any guarantee of the properties of the product. Information of this safety data sheet is taken from UNECE (United Nations Economic Commission 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.