



DAF Kimya İç ve Dış Tic. A.Ş.

Mahmutbey mah. Taşocağı yolu cad.

Ağaoğlu Myoffice 212 sit. no : 3 / 75

Bağcılar / İstanbul Trade register no : 98265-5

Phone : +9 0212 803 41 78 - 79 & 90

E-mail : info@inknovators.com

SAFETY DATA SHEET

This safety data sheet has been prepared according to "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)

Commercial Name : Hybrid Antimigration Base

SDS No : 035

1. PRODUCT & COMPANY IDENTIFICATION :

- 1.1. Product Name** : Hybrid Antimigration Base
1.2. Product Usage : Water based extra barrier printing base.
1.3. Company Name : DAF Kimya İç ve Dış Tic. A.Ş.
Address : Mahmutbey mah. Taşocağı yolu cad.
Ağaoğlu Myoffice 212 sit. no : 3 / 75
Bağcılar / İstanbul

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

- Supplier Name** : DAF Kimya İç ve Dış Tic. A.Ş.
Address : Mahmutbey mah. Taşocağı yolu cad.
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1.5. Emergency Phone : +9 0533 150 15 14 (7/24 hours)

E- mail : 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 skin irritation and allergic reactions avoid contact with skin. May cause serious eye damage if contact with eye, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If the victim don't feel good, immediately call the National poison control center (phone: 114) Seek medical attention immediately.

Use for protection, suitable protective clothing, gloves and eye/face Keep out of the reach of children and under lock and key.

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.



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Pictogram : GHS07

2.3. Other Hazards : N/A

3. COMPOSITION INFORMATION on HAZARDOUS INGREDIENTS :

Component	CAS No	EC No	Concentration (%)	Classification	Labeling
Polyurethane dispersion (Water-based)	Trade Secret	--	55-65%	--	--
Acrylic polymer dispersion (Water-based)	Trade Secret	--	5-15%	--	--
Titanium dioxide	13463-67-7	236-675-5	20-30%		
Ethylene glycol	107-21-1	203-473-3	1-20%	Acut Tox. 4 oral; H302 BHOT Repeated Exp. Oral 2; kidney H373	H302, H373 P260, P301+P312+P330 GHS07, GHS08
Carbon black (generic)	1333-86-4	231-153-3	1-5%		
Water	7732-18-5	231-791-2	--	--	--

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)



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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.

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:

Ethane diol : TWA (8 hours) : 20 ppm 52 mg/m³; STEL (15 min.) : 40 ppm 104 mg/m³



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

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

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

Carbon black (generic) : TWA: 15 mg/m³ (total particulates)

TWA: 5 mg/m³ (respirable particulates) (OSHA, PEL)

TWA: 5 mg/m³ (respirable particulates)

TWA: 10 mg/m³ (total particulates) (NIOSH, REL)

General hygiene and safety rules should be applied. The working environment must be eye shower (wash) station. Wash hands after working and end of day.

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.



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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** : Grey paste

9.1.2. **Odor** : Characteristic

9.2. Important Health, Safety and Environmental Information :

pH : 7.5 – 8.5

Boiling Point : >100°C (water)

Viscosity : [Brookfield] : 50.000 – 65.000 [mPa.s]

Density : 1,05 g/cm³ (20 °C)

Solubility : Soluble with 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 :

Ethane diol :

Toxicity (fish)

LC50 - Oncorhynchus mykiss (rainbow trout) - 18.500 mg/l - 96 h



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LC50 - Leuciscus idus (gold Orpheus) - > 10.000 mg/l - 48 h 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

EC50 - Daphnia magna (sweet bay) - 74.000 mg/l - 24 h NOEC - Daphnia (water flea) - 24.000 mg/l - 48 h

LC50 - Daphnia magna (sweet bay) - 41.000 mg/l - 48 h

LD50 Oral - rat - > 10.000 mg/kg

LD50 Dermal - rabbit - > 10.000 mg/kg

Skin corrosion/imitation dermal - Human

Result: There is small amount of skin irritation - 3 h

Serious damage/eye irritation Eyes - rabbit

Result: There is no eye irritation

Titanium dioxide :

LD50 Oral - rat - > 10.000 mg/kg

LD50 Dermal - rabbit - > 10.000 mg/kg

Skin corrosion/imitation dermal - Human

Result: There is small amount of skin irritation - 3 h

Serious damage/eye irritation Eyes - rabbit

Result: There is no eye irritation

Carbon black (generic

Acute Toxicity : Not classified. Rat, oral LD50: >10 000 mg/kg d

Reproductive Toxicity : Not Classified.

Rat TDLo Subcutaneous: 167 mg/kg (8 D pregnant)

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



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Ingestion : In case of ingestion may cause harmful.

12.ECOLOGICAL INFORMATION :

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

12.1. Toxicity

Ethane diol :

Toxicity on fish :

LC50 - Oncorhynchus mykiss (rainbow trout) - 18.500 mg/l - 96 h

LC50 - Leuciscus idus (Golden orfe) - > 10.000 mg/l - 48 h

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

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

Daphnia and other aquatic invertebrates toxicity:

EC50 - Daphnia magna (sweet bay) - 74.000 mg/l - 24 h

NOEC - Daphnia (water flea) - 24.000 mg/l - 48 h

LC50 - Daphnia magna (sweet bay) - 41.000 mg/l - 48 h

Titanium dioxide :

Toxicity on the fish LC50 - other fish - > 1.000 mg/l - 96 h

Toxicity to Daphnia and other aquatic invertebrates

EC50 - Daphnia magna (sweet bay) - > 1.000 mg/l - 48 h EC0 - Daphnia magna (sweet bay) - 1.000 mg/l - 48 h

12.2. Persistence and degradability :

This product is biodegradable. >70% , 28 day OECD 303 A

12.3. Bioaccumulative potential :

This product does not make bioaccumulative.

12.4. Mobility in soil :

The product can be mixed with water. Can spread in the aquatic environment.

12.5. Results of PBT and vPvB evaluation :

The product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects :



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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: 040216 Dyestuffs and pigments containing 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

ECHA (European Chemical Agency) :

<http://echa.europa.eu/web/guest/regulations/clp>



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16. OTHER INFORMATIONS :

17. Hazard Statements :

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

Precautionary Statements :

P 101 : If medical advice is needed, have product container or label at hand.

P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor/.../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.

P 280 : Wear protective gloves/protective clothing/eye protection/face protection.

P 309 + P 311 : In case of exposure or inability to feel better: call POISON CENTER or doctor / physician.

P 501 : Dispose of contents/container to ... [... in accordance with local/regional/national/international regulation.

Pictograms / Symboles :

GHS07



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



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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.

History of Revision :

Rev. No	Rev. Date	Revision Details
0	January 2016	First Issue
1	March 2016	R & S Statements are removed according to Regulation (EC) No 1272/2008