

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 5/8/2015	Revision date: 1/4/2016	Supersedes: 5/8/2015 Version: 1.0

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

1.1. Product identifier	
Product form	: Mixture
Trade name	: HP1044 ABRASION RESISTANT POLYUREA-B
Product code	: HP1044
Type of product	: Coating
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for general public

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

AKKİM YAPI KİMYASALLARI SANAYİ ve TİCARET A.Ş. Yeşilbayır mahallesi Şimşir sokak No:22 34555 İSTANBUL - TURKEY T +90 2127711371 - F +90 2127713888 info@akfixcoating.com, info@akfix.com - www.akfixcoating.com, www.akfix.com

1.4. Emergency telephone number

Emergency number	er :	+90 21277 <mark>11371</mark> (9:00 am - 17:00	pm GMT+2)	
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4		H302	Calculation method
Skin corrosion/irritation, Category 1C	;	H314	Calculation method
Specific target organ toxicity — Repe	eated exposure, Category 2	H373	Calculation method
Hazardous to the aquatic environmer	nt — Chronic Hazard, Category 2	2 H411	Calculation method
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Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Image: GHS05 : GHS07 : GHS07 : GHS08 : GHS09 : GHS09 : Danger : Propylene glycol diamine, 2-amino-, diether with Propylene; diethylmethylbenzenediamine : Hazard statements (CLP) : H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage



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	H373 - May cause damage to o H411 - Toxic to aquatic life with	rgans through prolonged or repeated exposure long lasting effects
Precautionary statements (CLP)	P301+P330+P331 - IF SWALL(P303+P361+P353 - IF ON SKII Rinse skin with water/shower P304+P340 - IF INHALED: Ren P305+P351+P338 - IF IN EYES contact lenses, if present and e P405 - Store locked up P501 - Dispose of contents/con	ist, vapours vironment ce protection, protective clothing, protective gloves OWED: rinse mouth. Do NOT induce vomiting N (or hair): Take off immediately all contaminated clothing. nove person to fresh air and keep comfortable for breathing S: Rinse cautiously with water for several minutes. Remove
Security closing plug for children	: Applicable	Ū.
Tactile warning	: Applicable	

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propylene glycol diamine, 2-amino-, diether with Propylene	(CAS No) 9046-10-0	>= 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Aquatic Chronic 3, H412
diethylmethylbenzenediamine (Note C)	(CAS No) 68479-98-1 (EC no) 270-877-4 (EC index no) 612-130-00-0 (REACH-no) 01-2119486805-25	10 - 25	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''- 1,2,3-propanetriyltris[.omega(2-aminomethylethoxy)-	(CAS No) 64852-22-8	> 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.



4.3.

5.1

5.2.

fire 5.3.

6.1. 6.1.1.

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according to Regulation (EU) 2015/830 Date of issue: 5/8/2015 Revision date: 1/4/2016 Supersedes: 5/8/2015 Version: 1.0 Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures **Extinguishing media** Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Special hazards arising from the substance or mixture Hazardous decomposition products in case of : Toxic fumes may be released. 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 Personal precautions, protective equipment and emergency procedures For non-emergency personnel

- Emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. 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. Methods and material for containment and cleaning up 6.3. For containment : Collect spillage. Take up liquid spill into absorbent material. Methods for cleaning up Other information Dispose of materials or solid residues at an authorized site. **Reference to other sections** 6.4. For further information refer to section 13. SECTION 7: Handling and storage Precautions for safe handling 7.1. Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. Specific end use(s) 7.3.

No additional information available

8.1. **Control parameters**

No additional information available

8.2. **Exposure controls**

Appropriate engineering controls

: Ensure good ventilation of the work station.



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Hand protection	: F	Protective gloves	
Eye protection	: 5	Safety glasses	
Skin and body protection	: \	Wear suitable protective clothing	
Respiratory protection	: 1	In case of insufficient ventilation, w	ear suitable respiratory equipment
Environmental exposure of	controls : A	Avoid release to the environment.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Grey.
Odour	: Amine-like.
Odour threshold	: No data available
рН	: 8-10
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 280 °C
Flash point	: > 150 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: <10 mbar
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 - 1.04 g/cm ³
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 300 - 600 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

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
10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. Image: Condition of use.
No dangerous reactions known under normal conditions of use.

No additional information available

10.6. Hazardous decomposition products

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



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11.1. Information on toxicological effe	acts
Acute toxicity	: Oral: Harmful if swallowed.
•	
ATE CLP (oral)	909.091 mg/kg bodyweight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 8 - 10
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: 8 - 10
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure	e) : Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
SECTION 12: Ecological informat	ion
12.1. Toxicity	
Ecology - general	: Toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	sment
No additional information available	
12.C Other advance offecto	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerat	tions
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	on
In accordance with ADR / RID / IMDG / IATA	
14.1. UN number	
UN-No. (ADR)	: 2735
UN-No. (IMDG)	: 2735
UN-No. (IATA)	: 2735
UN-No. (ADN)	: 2735
UN-No. (RID)	: 2735
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: AMINES, LIQUID, CORROSIVE, N.O.S. / POLYAMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG)	: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA)	: Polyamines, liquid, corrosive, n.o.s.
Proper Shipping Name (ADN)	: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
2/15/2016	EN (English)



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Proper Shipping Name (RID)	: POLYAMINES, LIQUID, CORROSIVE, N.O.S.		
Transport document description (ADR)	 : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. / POLYAMINES, LIQUID, CORROSIVE, N.O.S., 8, III, (E), ENVIRONMENTALLY HAZARDOUS 		
Transport document description (IMDG)	: UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS		
Transport document description (IATA)	: UN 2735 Polyamines, liquid, corrosive, n.o.s., 8, III, ENVIRONMENTALLY HAZARDOUS		
Transport document description (ADN)	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS		
Transport document description (RID)	: UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es) ADR			
Transport hazard class(es) (ADR)	: 8		
Danger labels (ADR)	: 8		
IMDG			
Transport hazard class(es) (IMDG)	: 8		
	. o : 8		
Danger labels (IMDG)	. 0		
ΙΑΤΑ			
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 : 8		
ADN			
Transport hazard class(es) (ADN) Danger labels (ADN)	: 8 : 8		
RID			
עוא Transport hazard class(es) (RID)	: 8		
Danger labels (RID)	: 8		



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14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	· ···· : III
Packing group (IATA)	: III
Packing group (ADN)	: 111
	· ···· : III
Packing group (RID)	: 10
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: C7
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: 17
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	80 2735
Tunnel restriction code (ADR)	E
EAC code	: 2X
APP code	: B
- Transport by sea	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
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Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.
MFAG-No	: 153
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C7
Special provisions (ADN)	: 274
imited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	:Т
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C7
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Aixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
ank codes for RID tanks (RID)	: L4BN
ransport category (RID)	: 3
Special provisions for carriage – Packages RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

15.1.2. National regulations



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Germany					
VwVwS Annex reference	:	Water hazard class (WGK) 2, h	azard to waters (Classification according to VwVwS, Annex 4)		
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSch	nV (Hazardous Incident Ordinance)		
Netherlands					
SZW-lijst van kankerverwekkende stoffen	:	: diethylmethylbenzenediamine is listed			
SZW-lijst van mutagene stoffen	:	: diethylmethylbenzenediamine is listed			
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are lis	ted		
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are lis	ted		
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are lis	ted		
Denmark					
Recommendations Danish Regulation	:		18 years are not allowed to use the product working with the product must not be in direct contact with the		

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-state	ments:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Skin Corr. 1C	Skin corrosion/irritation, Category 1C		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2		
H302	Harmful if swallowed		
H312	Harmful in contact with skin		
H314	Causes severe skin burns and eye damage		
H315	Causes skin irritation		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H373	May cause damage to organs through prolonged or repeated exposure		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
H411	Toxic to aquatic life with long lasting effects		
H412	Harmful to aquatic life with long lasting effects		

SDS EU AKFIXCOATING

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