

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## AKPEK 202 %20

Version: 2.1  
Form No: 193183

Preparation Date : 10/9/2013  
Revision Date: 9/14/2015

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

<b>Product Name</b>	AKPEK 202 %20
<b>SDS No</b>	193183
<b>Description</b>	Paper Auxiliary Chemicals

#### 1.2 Relevant Identified Uses Of The Product And Uses Advised Against

<b>Relevant Identified Uses</b>	Water Resistant Resin
<b>Uses Advised Against</b>	See chapter 16 for a general overview

#### 1.3 Details Of The Supplier Of The Safety Data Sheet

<b>Supplier (Manufacturer)</b>	AK-KİM KİMYA SAN. VE TİC. A.Ş. <a href="http://www.akkim.com.tr">www.akkim.com.tr</a>
<b>Address – Factory</b>	Denizçalı Köyü, Taşköprü Mevkii, P.K. 39 77600 Yalova / TÜRKİYE
<b>Telephone</b>	0 226 815 33 00
<b>Fax</b>	0 226 353 25 39

#### 1.4 Information Providing Authority About Safety Data Sheet

	Serhat ZEYTİNCİ
<b>Telephone</b>	+90 (226) 815 33 00 / 36210
<b>Fax</b>	+90 (226) 353 25 32
<b>E-mail</b>	<a href="mailto:szeytinci@akkim.com.tr">szeytinci@akkim.com.tr</a>

#### 1.5 Emergency Telephone Number

<b>Company Emergency</b>	0 226 815 33 00
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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification Of The Product

##### 2.1.1 Classification According to Regulation (EC) No 1272/2008

- Aquatic Chronic 3, H412

#### 2.2 Label elements

##### 2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP<sup>1</sup>/GHS<sup>2</sup>]

<b>Product Identifier</b>	Hazard Component for Labeling
	· Not Applicable
<b>Hazard Pictograms</b>	· Not Applicable
<b>Signal Word</b>	· Not Applicable
<b>Hazard Statements</b>	H412 Harmful to aquatic life with long-lasting effects.
<b>Precautionary Statements</b>	General
	· None

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<b>Prevention</b>	
<b>P273</b> Avoid release to the environment.	
<b>Response</b>	
· None	
<b>Storage</b>	
· None	
<b>Disposal</b>	
<b>P501</b> Dispose of contents/container in accordance with local/ regional/ national/ international regulation	
<b>Supplemental Hazard Information (EU) Statements</b>	
No data available.	
<b>2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures</b>	
None.	
<b>2.2.3. Additional Labeling</b>	
· Not Applicable	
<b>2.3 Hazard Identification</b>	
<b>2.3.1. Skin Contact</b>	
May cause irritation in direct contact	
<b>2.3.2. Eye Contact</b>	
May cause irritation in direct contact	
<b>2.3.3. Ingestion</b>	
Digestive tract diseases, can cause vomiting and nausea.	
<b>2.3.4. Inhalation</b>	
The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. When over-heated fumes will be emitted, which may cause asthmatic attacks when inhaled.	
<b>2.3.5. Long term effects</b>	
No data available	
<b>2.3.6. Adverse Environmental Effects</b>	
No data available	
<b>2.4. Additional Information</b>	
· None	

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Description Of The Substance

NAME	EINECS NO	CAS NO.	CONTENT(%)	CLASSIFICATION
				CLP
Adipic acid, diethylenetriamine epichlorohydrine polymer	-	25212-19-5	15-20	Aquatic Chronic 2, H411

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## 3.2 Additional information

- None

## FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 General information

- When in doubt or if symptoms are observed, get medical advice.
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### 4.1.2 Following inhalation

- First aid is not generally required.
- Other measures are usually unnecessary

#### 4.1.3 Following skin contact

- First aid is not generally required.
- Flush skin running water (and soap if available).
- Seek medical attention in event of irritation

#### 4.1.4 Following eye contact

- Wash out immediately with water.
- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### 4.1.5 Following ingestion

- Rinse out mouth with water.
- Give a glass of water.
- First aid is not generally required.
- If in doubt, contact a Poisons Information Centre or a doctor.

#### 4.1.6 Self-protection of the first aider

- Not applicable

#### 4.1.7 Notes for the doctor

- Unlikely to be required but if necessary treat symptomatically

## 4. FIRE-FIGHTING MEASURES

### 5.1 General Information and Flammable Properties

- The product itself does not burn.
- Use firefighting procedures suitable for surrounding area.
- If safe to do so, remove containers from path of fire.

### 5.2 Extinguishing media:

- Foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog - Large fires only

### 5.3 Unsuitable extinguishing media

- None known.

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### 5.4 Special hazards arising from the product

- May emit corrosive fumes
- Carbon monoxide and carbon dioxide aldehydes

### 5.5 Advice for fire-fighters

- Wear breathing apparatus plus protective gloves for fire only

### 5.6 Additional information

- Cool endangered containers with water in case of fire.
- Do not allow the quenching water into sewage systems

## 5. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- Refer to protective measures listed in section 7 and 8.

### 6.2 Environmental precautions

- No special measure is required.

### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 For containment

- Control personal contact by using protective equipment as required
- Take up contaminated material and pass on for further processing.
- Contain for disposal according to local / national regulations.

#### 6.3.2 For cleaning up

- Control personal contact by using protective equipment.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal
- Place in a suitable, labelled container for waste disposal.
- Dispose of in accordance with legal regulations and place in a suitable, labeled container for waste disposal
- Collect recoverable product into labeled containers for recycling

#### 6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

### 6.4 Reference to other sections

- Dispose of contaminated material as waste in accordance with section 13.
- See Section 13.

## 6. HANDLING AND STORAGE

### 7.1.1 Precautions for safe handling

### 7.1.2 Protective measures

#### Personal preventions

- Use in a well-ventilated area
- Use good occupational work practice.

#### Fire preventions

- See section 5.

#### Environmental precautions:

- Dispose of waste material according to local, state and federal regulations.

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### 7.1.3 Advice on general occupational hygiene

- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store away from direct sunlight.
- Check all containers are clearly labelled and free from leaks.
- Store in original containers.
- Keep containers securely sealed when not in use
- Avoid contact with incompatible materials
- Avoid physical damage to containers.

#### STORAGE INCOMPATIBILITY

- Do not store with oxidizing and flammable materials.
- Observe manufacturer's storing and handling recommendations

### 7.1 Advice on common storage

- See also instructions on the label.
- Store in a cool, dry, well-ventilated area.
- Keep away from food, drink and animal feeding stuffs.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage.

### 7.2 Specific precautions on storage

- Observe the national and local regulations concerning handling and storage.

## 7. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

#### 8.1.1 Occupational exposure limits

- No data available

### 8.2 Exposure controls

- Adequate ventilation should be used during processing

#### 8.2.1 Appropriate engineering controls:

- See Section 7

### 8.2.2 Personal protection equipment

#### 8.2.2.1 Eye / Face protection:

- Not normally required.
- Use protective eyewear if necessary.(EN166)



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## 8.2.2.2 Skin protection

### Hand protection

- Wear suitable gloves if prolonged skin contact is likely.(EN 374)
- Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended



### Body protection

- Not required under normal use

### Other protection

- Handle in accordance with good industrial hygiene and safety practice.

## 8.2.2.3 Respiratory protection

- Not required.

### Respirator Recommendations

- No further data

## 8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance

Form/Physical state	Liquid
Color	Yellow
Odor	Characteristic
	Value
pH @ (20(°C)	3,0 ± 0,5
Freezing point/range (°C)	Not available
Boiling point/range (°C)101,3 kPa	Not available
Melting point (°C)	Not available
Flash Point (°C)closed cup	Not available
Ignition temperature (°C)	Not self-igniting
Viscosity cp	60-140
Specific Gravity gr/cm <sup>3</sup>	1,05
Solubility in water g/l @ 20°C	Soluble
Solubility in ester, ketone and hydrocarbons	Not available
Partition coefficient n-Octanol/Water (log Po/w)	Not available
Explosive Property	None
Oxidation Property	None

Note: The above features were determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous. Substances Regulation Section A-3 or a method comparable to the other.

## 9. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

- Stable under recommended storage and handling conditions. (See section 7.)

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### 10.3 Possibility of hazardous reactions

- No hazardous reactions known.

### 10.4 Conditions to avoid:

- Keep away from direct sunlight and over-heating
- May form peroxides of unknown stability.

### 10.5 Incompatible materials:

- Strong oxidizing materials.

### 10.6 Hazardous decomposition products:

Other decomposition products - no data available aldehydes

### 10.7 Hazardous polymerization:

- None.

## 10. TOXICOLOGICAL INFORMATION

### 11.1 General Information

- Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### 11.2 Acute toxicity

- No data available

### 11.3 Skin corrosion/irritation and Eye damage/irritation:

- In normal conditions no irritation expected on skin contact.
- In normal conditions no irritation expected on eye contact.

### 11.4 CMR effects (Carcinogenity) :

- IARC  
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### 11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :

- No data was available concerning mutagenicity and reproductive toxicity

### 11.6 Other Toxicological Effects:

Allergic Effects	Skin contact may cause allergic effects
Effects on Repeated Doses Chronic Exposures	No data available
Sensitization	No data available
Developmental Toxicity (Teratogenicity)	No data available
Fertility	No data available

### 11.7 STOT-single/repeated exposures:

STOT-single exposure	No data available
STOT-repeated exposure	No data available

### 11.8 Symptoms related to the physical, chemical and toxicological characteristics:

In case of inhalation	May cause irritation
In case of skin contact	May cause irritation
In case of eye contact	May cause irritation
In case of ingestion	Digestive tract diseases, can cause vomiting and nausea.

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## 11.9 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information
- EEC classification: None
- The special effects to health are considered by taking into account the information in section 3.

## 11. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

#### Adipic acid, diethylenetriamine epichlorohydrine polymer [CAS# 25212-29-5]:

##### Toxicity to fish

- LC50 - *Leuciscus idus* (Golden orfe) – 2,4-2,6 mg/l - 96 h

### 12.2 Photo degradation

No data available.

### 12.3 Effects on Waste Water Treatment Plants

Not determined.

### 12.4 Mobility

Liquid

Solubility in water: Soluble

Refer to ecotoxicity.

Water threat class

No data available

Clean Water Impact

No data available

Known or predicted environmental distribution

No data available

### 12.5 Results of PBT and vPvB assessment

Biotic	
Ready biodegradability:	No data available
Abiotic:	
Hydrolysis as a function of pH:	No data available
Photolysis:	No data available
Atmospheric oxidation:	No data available

#### Persistence and degradability:

Decomposition Potential of the products	Adipic acid, diethylenetriamine epichlorohydrine polymer [CAS# 25212-29-5]: High persistency potential
The half-life of degradation	No data available
Potential degradation of product content in the evaluation of wastewater treatment plants	No data available
· <b>Bioaccumulation Potential :</b>	
Biological environment (biota) accumulation potential	Adipic acid, diethylenetriamine epichlorohydrine polymer [CAS# 25212-29-5]: One bio- accumulation potential



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Potential - nutrients pass through No data available

Reference Values - Log Kow , Sw and BCF No data available

### 12.6 Additional information

- Aquatic toxicity: Harmful to aquatic life with long-lasting effects.
- See the sections 6, 7, 13, 14 and 15.

## 12. DISPOSAL CONSIDERATIONS

### 13.1 Product / Packaging disposal

- This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
- If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means.
- Shelf life considerations should also be applied in making decisions of this type.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Disposal according to local authority regulations.
- Contact waste disposal services

### 13.2 Contaminated packaging

- If there is product residue in the emptied container, follow directions for handling on the container's label.
- Contaminated packaging must be emptied of all residues and can be recycled following appropriate cleaning.

### 13.3 Disposal Methods

- Dispose of chemicals waste or in accordance with local regulations.
- Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.
- If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal

### 13.4 European Waste Catalogue

- The final classification has to be done together with the local waste disposal company / authority.

## 13. TRANSPORT INFORMATION

	ADR <sup>3</sup> /RID <sup>4</sup>	ADNR	IMDG <sup>5</sup>	ICAO <sup>6</sup> /IATA <sup>7</sup>
<b>TRANSPORTATION</b>	Road	River	Marine	Airways
<b>PROPER SHIPPING NAME</b>	Not classified as dangerous in the meaning of transport regulations.			
<b>UN/ID No.</b>	-	-	-	-
<b>CLASS</b>	-	-	-	-
<b>PACKAGING GROUP</b>				
<b>LABELLING NO</b>	-			
<b>CLASSIFICATION CODE</b>	-	-	-	-

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HAZARD NO (HIN NO)	-			
EmS			-	
MARINE Pollutant			No	
Road Transport Notes: This product is NOT regulated as a hazardous material.				

## 14. REGULATORY INFORMATION

### 15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance

- None of the ingredients is found on the regulatory lists.

### 15.2 Chemical Safety Assessment

No data available

#### 15.2.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

- Aquatic Chronic 3, H412

### 15.3 INTERNATIONAL REGULATIONS

- This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to EU Directive GHS/CLP.

## 15. OTHER INFORMATION

### 16.1 Other information

- For additional information regarding AK-KIM KIMYA SAN. VE TIC. ŞTİ.products please contact the AK-KIM KIMYA SAN. VE TIC. A.S Vedat Ateşoğlu - [vatesoglu@akkim.com.tr](mailto:vatesoglu@akkim.com.tr)
- The above information complies with the 1907/2006 Directive and its amendments.
- In all cases of potential poisoning supportive therapy is of the utmost importance.

### 16.2 Related Person

Doruk Chemical Management Systems, Engineering, Technology & Consultancy Inc. Co.

Prepared by: MSc Feriye ŞENOL KAPTI ([feriye.kapti@doruksistem.com.tr](mailto:feriye.kapti@doruksistem.com.tr))

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### 16.3 Revision Date, Version and SDS no

- Date : September 14, 2015
- Version : 2.1
- MSDS No : 193183

### 16.4 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

### 16.5 Relevant H- and EUH-phrases (number and full text):

**H411** Toxic to aquatic life with long-lasting effects.

**H412** Harmful to aquatic life with long-lasting effects.

### 16.6 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.

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- *The information given should not, therefore, be construed as guaranteeing specific properties or as specification.*
- *Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.*
- *The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.*
- *The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.*
- *The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.*

<sup>1</sup> CLP: Classification Labelling and Packaging

<sup>2</sup> GHS: Global Harmonised System

<sup>3</sup> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

<sup>4</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

<sup>5</sup> IMDG: International Maritime Code for Dangerous Goods

<sup>6</sup> ICAO: International Civil Aviation Organization

<sup>7</sup> IATA: International Air Transport Association