

**SAFETY DATA SHEET****AKPEROX BP50 POWDER**

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** AKPEROX BP50 POWDER  
**Chemical name** Di Benzoyl Peroxide, Powder, 50%

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

**Identified uses** Industrial use.  
**Uses advised against** No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer** AKPA KİMYA AMBALAJ SANAYİ VE TİCARET ANONİM ŞİRKETİ  
Yenibosna Merkez Mah. Ladin Sok. No:36/70 Kat:12 34197  
Townofis Bahçelievler, İstanbul, TÜRKİYE  
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E-mail: info@akpakimya.com  
**Contact person** Export Department - export@akpakimya.com

**1.4. Emergency telephone number**

**Emergency telephone** CHEMTREC: TOLL Free 1-800-424-9300 / Local: +1-703-527-3887  
**For product information** AKPA KİMYA: +90 549 558 40 40

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

**Physical hazards** Org. Perox. D - H242  
**Health hazards** Eye Irrit. 2 - H319; Skin Sens. 1A - H317; Repr. 1B - H360  
**Environmental hazards** Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

**2.2. Label elements****Pictogram****Signal Word****Hazard statements****Danger**

**H242** Heating may cause a fire.  
**H317** May cause an allergic skin reaction.  
**H319** Causes serious eye irritation.

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- H360** May damage fertility or the unborn child.  
**H410** Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

- P202** Do not handle until all safety precautions have been read and understood.  
**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P220** Keep away from acids, alkalis, heavy metal compounds, oxidizing material, combustible materials.  
**P261** Avoid breathing dust.  
**P280** Wear protective gloves/protective clothing/ eye protection/ face protection.  
**P301+P310 IF SWALLOWED:** Immediately call a POISON CENTER or doctor/ physician.  
**P302+P352 IF ON SKIN:** Wash with plenty of water.  
**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P308+P313 IF exposed or concerned:** Get medical advice/attention.  
**P333+P313 IF skin irritation or rash occurs:** Get medical advice/ attention.  
**P410** Protect from sunlight.  
**P411+P235** Store at temperatures not exceeding (+5) / (30)°C. Keep cool.  
**P501** Dispose of contents/ container in accordance with national regulations.

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Contains

Dibenzoyl peroxide, Dicyclohexyl phthalate

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Dibenzoyl Peroxide		%49-51	
REACH Reg. No: 01-2119511472-50-0017			
CAS Number	94-36-0	EC Number	202-327-6
<b>Classification</b>			
Org. Perox. B	H241		
Skin Sens. 1	H317		
Eye Irrit. 2	H319		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

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<b>Dicyclohexyl Phthalate</b>		<b>%49-51</b>	
<b>REACH Reg. No: 01-2119978223-34-0003</b>			
<b>CAS Number</b>	<b>84-61-7</b>	<b>EC Number</b>	<b>201-545-9</b>
<b>Classification</b>			
Skin Sens. 1	H317		
Repr. 1B	H360		
Aquatic Chronic 2	H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin contact**

Brush off loose particles from skin. It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water

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before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**

Irritating to eyes.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fireextinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing Media**

Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture****Specific hazards**

May cause or intensify fire; oxidiser.

**Hazardous decomposition products**

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

**5.3. Advice for firefighters****Protective actions during firefighting**

Avoid breathing fire gases or vapours. Evacuate area. May cause or intensify fire; oxidiser. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

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Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

**6.2. Environmental precautions****Environmental precautions**

Insoluble in water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment. Collect spillage. Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

**6.3. Methods and material for containment and cleaning up****Methods for cleaning up**

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Do not allow material to enter confined spaces, due to the risk of explosion. Approach the spillage from upwind. Avoid generation and spreading of dust. Small Spillages: Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Large Spillages: Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

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Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### 6.4. Reference to other sections Reference to the other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

#### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from other materials. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

#### 7.3. Specific end use(s) Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

#### 8.1. Control Parameters



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#### Occupational exposure limits

Ingredients	CAS No.	Value	Control Parameters	Basis
Dibenzoyl peroxide	94-36-0	TWA	5 mg/m <sup>3</sup>	ACGIH NIOSH REL OSHA Z-1 OSHA P0

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Dibenzoyl peroxide	Consumers	Oral	Longterm System	1.65 mg/kg bw/day
	Workers	Dermal	Longterm System	6.6 mg/kg bw/day
	Consumers	Dermal	Longterm System	3.3 mg/kg bw/day
	Workers	Inhalation	Longterm System	11.75 mg/m <sup>3</sup>
	Consumers	Inhalation	Longterm System	2.9 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Dibenzoyl peroxide	Fresh water	0,000602 mg/l
	Marine water	0,0000602 mg/l
	Intermittent use/release	0,493 mg/l
	Fresh water sediment	0,338 mg/kg
	Marine sediment	0,0338 mg/kg
	Sewage treatment plant	0,35 mg/l

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control

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measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Wear a full facepiece respirator fitted with the following cartridge: Combination filter, type A2/P3.



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**Environmental exposure controls**

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Powder.
<b>Colour</b>	White.
<b>Melting point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Bulk density</b>	775 - 805 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Not available.
<b>Viscosity</b>	Not available.

**9.2. Other information**

<b>Active Oxygen Content</b>	3,23 - 3,38 %
<b>SADT</b>	60°C

**SECTION 10: Stability and reactivity****10.1. Reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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**10.2. Chemical stability**

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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**10.3. Possibility of hazardous reactions**

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions.
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**10.4. Conditions to avoid**

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
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**10.5. Incompatible materials**

<b>Materials to avoid</b>	Reducing agents. Flammable/combustible materials. Hydrocarbons. Organic cyanides (nitriles). Esters. Some metals. P220 Keep away from amine and cobalt accelerators, acids, alkalis and heavy metal compounds, combustible materials.
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**10.6. Hazardous decomposition products****Hazardous decomposition Products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Product Information****Toxicological information**

The product is not tested.

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Skin corrosion/irritation:**

Based on available data the classification criteria are not met.

**Respiratory or skin sensitisation:****Respiratory sensitisation**

Based on available data the classification criteria are not met.

**Skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity:**

Genotoxicity - In Vitro - In Vivo Based on available data the classification criteria are not met.

**Carcinogenicity:**

Based on available data the classification criteria are not met.

**Reproductive Toxicity - Fertility**

Suspected of damaging fertility.

**Reproductive Toxicity –**

May damage fertility or the unborn child.

**Development****Specific target organ toxicity - single exposure:****STOT - Single exposure**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure:****STOT - Repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration Hazard**

Not relevant. Solid.

**Inhalation**

Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**

Irritating to eyes.

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<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.
<b>Medical considerations</b>	Skin disorders and allergies.

**Toxicology Data For The Ingredients:****Dibenzoyl peroxide**Acute oral toxicity  
Acute inhalation toxicityLD50: >5,000 mg/kg  
LC50 (Rat): >24.3 mg/lSpecies: Rat  
Exposure time: 4h**SECTION 12: Ecological Information****12.1. Toxicity****Ecological information on ingredients.****Dibenzoyl peroxide**

<b>Toxicity to fish</b>	EC50, 96h (Oncorhynchus mykiss (rainbow trout)): 0.06 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50, 48h (Daphnia magna (Water flea)): 0.11 mg/l
<b>Toxicity to algae</b>	EC50, 72h (Pseudokirchneriella subcapitata (green algae)): 0.06 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</b>	EC10, 21d (Daphnia magna (Water flea)): 0.001 mg/l

**12.2. Persistence and degradability****Persistence and degradability** The degradability of the product is not known.**12.3. Bio accumulative potential****Bio accumulative potential** No data available on bioaccumulation.**12.4. Mobility in soil****Mobility** The product is insoluble in water.**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.**12.6. Other adverse effects****Other adverse effects** May be hazardous to aquatic life.**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods****General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

**SECTION 14: Transport information****General information**

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

**14.1. UN number**

UN No. (ADR/RID) 3106

UN No. (IMDG) 3106

UN No. (ICAO) 3106

UN No. (ADN) 3106

**14.2. UN proper shipping name**

Proper Shipping name(ADR/RID) ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

Proper Shipping name (IMDG) ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

Proper Shipping name (ICAO) ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

Proper Shipping name (ADN) ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

**14.3. Transport hazard class(es)**

ADR/RID class 5.2

ADR/RID label 5.2

IMDG class 5.2

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ICAO class/division	5.2
ADN class	5.2

**Transport labels**

**14.4. Packing group**  
Not applicable.

**14.5. Environmental hazards**  
Environmentally hazardous substance/marine pollutant



**14.6. Special precautions for user**  
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-J, S-R
Emergency Action Code	1W
ADR transport category	2
Tunnel restriction code	(D)

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**  
Transport in bulk according to Annex II of MARPOL Not Applicable.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**National regulations**  
Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

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#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Key literature references and sources for data

This SDS is prepared based on the information received from the product owner.

#### Classification procedures according to Regulation (EC) 1272/2008

Org. Perox. E H242; Eye Irrit 2 H319; Skin sens.1A H317; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410 Calculation Method.

#### Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

#### Revision comments

The SDS is generated in accordance with the 1907/2006 REACH and 1272/2008 CLP regulations. Section 2 and section 3 is revised.

#### Issued By

Simge ARIK - lab@akpakimya.com +90 282 361 80 99

#### Issued Date

20.06.2016

#### Revision date

24.08.2021

#### Revision

4.0

#### Hazard statements in full

H241	Heating may cause a fire or explosion..
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
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.



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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.