

**SAFETY DATA SHEET****AKPEROX DCP**

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 DCP  
**Chemical name** Dicumyl peroxide

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

**Identified uses** Free radical polymerization initiator, Unsaturated polyester curing agent, Intermediate of organic synthesis  
**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  
Web: www.akpakimya.com  
TEL: +90 212 580 55 59  
FAX: +90 212 580 55 21  
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. F - H242  
**Health hazards** Skin Irrit. 2 - H315; Eye Irrit. 2 - H319  
**Environmental hazards** Aquatic Chronic 2 - H411

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

**H242** Heating may cause a fire.  
**H315** Causes skin irritation.

**SAFETY DATA SHEET****AKPEROX DCP**

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

- H319** Causes serious eye irritation.  
**H411** Toxic to aquatic life with long lasting effects.

**Precautionary statements**

- 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.  
**P264** Wash soap and water thoroughly after handling.  
**P280** Wear protective gloves/protective clothing/ eye protection/ face protection.  
**P302+P352 IF ON SKIN:** Wash with plenty of water.  
**P304+P340 IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P312** Call a POISON CENTER or doctor/physician if you feel unwell.  
**P403+P233** Store in a well-ventilated place. Keep container tightly closed.  
**P501** Dispose of contents/ container in accordance with national regulations.

**Commission Regulation (EU) No 2015/830 of 28 May 2015.****Contains**bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide**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**

bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide		%99<	
<b>CAS Number</b>	<b>80-43-3</b>	<b>EC Number</b>	<b>201-279-3</b>
<b>Classification</b>			
Org. Perox. F	H242		
Skin Sens. 1	H315		
Eye Irrit. 2	H319		
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**

**SAFETY DATA SHEET****AKPEROX DCP**

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

<b>General information</b>	Effects may be delayed. Keep affected person under observation. Chemical burns must be treated by a physician.
<b>Inhalation</b>	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water 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**

<b>General information</b>	Move out of dangerous area. Show this Safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.
<b>Inhalation</b>	Nausea, vomiting. Dizziness.
<b>Ingestion</b>	May cause stomach pain or vomiting. Chemical burns.
<b>Skin contact</b>	May cause serious chemical burns to the skin.
<b>Eye contact</b>	May cause severe eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**SAFETY DATA SHEET****AKPEROX DCP**

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

**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**

Vapours may form explosive mixtures with air. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous decomposition products**

Decomposition under effect of heating causes flammable and toxic products, don't breathe fumes. Combustion products: carbon dioxide, Carbon monoxide, Acetophenone, 2-Phenylisopropanol.

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

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out. Fight fire from safe distance or protected location. Move containers from fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. 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**

Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

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

Avoid or minimise the creation of any environmental contamination.

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

Sweep up with dustpan and brush off inert material, flushing the remainder with water. Avoid dust generation. Keep contents moist. The waste should not be confined.

**SAFETY DATA SHEET****AKPEROX DCP**

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

**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**

Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Do not handle broken packages without protective equipment.

**Advice on general occupational hygiene**

Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Good personal hygiene procedures should be implemented. Mechanical ventilation or local exhaust ventilation may be required. Container must be kept tightly closed when not in use.

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

Keep away from heat and sources of ignition & the best storage temperatures is below 38°C. Avoid temperatures below 10 °C. If product freezes or separates, contact ACE. Keep Sealing up tightly and storing in a dry place & a well-ventilated environment. Use only very clean containers and equipment free from traces of impurities and never return unused product to original container. Do not reuse empty packaging to store other products. Store in well-insulated area (peroxide area) away from other substances. Limit storage time to 12 months after manufacturing date. Provide electrical earthing equipment in explosive atmospheres.

Prohibit the product to contact with heavy metals & heavy metals compounds, strong oxidizing agents, strong acids and strong bases, rust, reducing agents, Sulphur compounds, ordinary metals (ordinary steel, copper) and natural or synthetic rubber. Package in Polyethylene(PE), Polytetrafluoroethylene (PTFE) and Stainless steel.

**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**

**SAFETY DATA SHEET****AKPEROX DCP**

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

**8.1. Control Parameters****Occupational exposure limits**

There is no exposure limit.

**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

**Hand protection**

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Rubber (natural, latex). 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.

**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. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.

**Environmental exposure controls**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**SAFETY DATA SHEET****AKPEROX DCP**

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

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Crystalline solid.
<b>Colour</b>	White.
<b>Odour</b>	Faint
<b>Melting point</b>	39.5°C
<b>Density</b>	1,10±0,005 gr/cm <sup>3</sup> (@20°C)
<b>Bulk density</b>	660 kg/m <sup>3</sup>
<b>Tapped Bulk Density</b>	705 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	in most organic solvents
<b>Flammability (solid, gas)</b>	not determined
<b>Flash point</b>	Above the SADT value
<b>pH value</b>	neutral character
<b>Viscosity</b>	No data available

**9.2. Other information**

<b>Active Oxygen Content</b>	min. 5,8%
<b>SADT</b>	80°C

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

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability****Stability**

SADT(Self accelerating decomposition temperature): 80°C SADT is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT Contact with incompatible substances can cause decomposition at or below the SADT.

**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions**

Not available.

**10.4. Conditions to avoid****Conditions to avoid**

Avoid heat, flames and other sources of ignition. To maintain quality store in original closed container below: 38°C A high degree of confinement must be avoided.

**10.5. Incompatible materials**

**SAFETY DATA SHEET****AKPEROX DCP**

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

**Materials to avoid**

Avoid contact with rust, iron and Copper. Contact with incompatible materials such as acids, alkalies, heavy metals and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators. Use only Stainless steel 316, PP, polyethylene or glass-lined equipment.

**10.6. Hazardous decomposition products****Hazardous decomposition Products**

Hazardous decomposition products; Methane, Acetophenone, Products 2- Phenylisopropanol.

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

Oral LD50 : rat > 2,000 mg/kg  
Dermal LD50 : rat > 2,000 mg/kg

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Skin corrosion/irritation:**

Causes skin irritation.

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

Based on available data the classification criteria are not met.

**Skin sensitisation**

Based on available data the classification criteria are not met.

**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**

Based on available data the classification criteria are not met.

**Reproductive Toxicity –****Development**

Based on available data the classification criteria are not met.

**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**

Based on available data the classification criteria are not met.

**Inhalation**

Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.



**SAFETY DATA SHEET****AKPEROX DCP**

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

<b>Ingestion</b>	Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach.
<b>Skin contact</b>	Causes skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	Respiratory system, lungs
<b>Medical considerations</b>	Skin disorders and allergies.

**SECTION 12: Ecological Information****12.1. Toxicity****Ecological information on ingredients.**

Fish : LC50 = 108 mg/l. ( Poecilia reticulata.)

Algae : 72h – IC50 &gt; 1,000 mg/l

Bacteria : Activated sludge respiration inhibition test EC50 &gt; 1,000mg/l

**12.2. Persistence and degradability****Persistence and degradability**

The product is readily biodegradable.

**12.3. Bio accumulative potential****Bio accumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil****Mobility**

The product is partly miscible with water and may spread in the aquatic environment.

**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****13.1. Waste treatment methods**

## SAFETY DATA SHEET

### AKPEROX DCP

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

#### General information

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

#### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Environmental Manager must be informed of all major spillages.

## 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)	3110
UN No. (IMDG)	3110
UN No. (ICAO)	3110
UN No. (ADN)	3110

#### 14.2. UN proper shipping name

Proper Shipping name(ADR/RID)	ORGANIC PEROXIDE TYPE F, SOLID (bis(α,α-dimethylbenzyl) peroxide)
Proper Shipping name (IMDG)	ORGANIC PEROXIDE TYPE F, SOLID (bis(α,α-dimethylbenzyl) peroxide)
Proper Shipping name (ICAO)	ORGANIC PEROXIDE TYPE F, SOLID (bis(α,α-dimethylbenzyl) peroxide)
Proper Shipping name (ADN)	ORGANIC PEROXIDE TYPE F, SOLID (bis(α,α-dimethylbenzyl) peroxide)

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

ADR/RID class	5.2
ADR/RID label	5.2
IMDG class	5.2
ICAO class/division	5.2
ADN class	5.2

#### Transport labels



#### 14.4. Packing group

**SAFETY DATA SHEET****AKPEROX DCP**

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

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

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

No.

**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
Hazard Identification Number (ADR/RID)	539
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.

**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**

**SAFETY DATA SHEET****AKPEROX DCP**

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

<b>Key literature references and sources for data</b>	This SDS is prepared based on the information received from the product owner.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Aquatic Chronic 2 - H411: Calculation Method. Org. Perox. F - H242: Expert Judgement.
<b>Training advice</b>	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
<b>Revision comments</b>	The SDS is generated in accordance with the 1907/2006 REACH and 1272/2008 CLP regulations. Section 2 and section 3 is revised.
<b>Issued By</b>	Simge ARIK - lab@akpakimya.com +90 282 361 80 99
<b>Issued Date</b>	26.12.2014
<b>Revision date</b>	10.06.2019
<b>Revision</b>	1.0
<b>Hazard statements in full</b>	
<b>H242</b>	Heating may cause a fire.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

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.