

**SAFETY DATA SHEET****AKPEROX AAP**

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 AAP  
**Chemical name** Acetyl Acetone Peroxide

**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**

**Supplier** 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  
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E-mail: info@akpakimya.com

**Contact person** Export Department - export@akpakimya.com

**1.4. Emergency telephone number**

**Emergency telephone** AKPA Kimya : +90 212 580 55 59

**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. 1 - H317  
**Environmental hazards** Not classified.

**2.2. Label elements****Pictogram**



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<b>Signal Word</b>	Danger	
<b>Hazard statements</b>	H242	Heating may cause a fire.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
<b>Precautionary statements</b>	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P220	Keep away from acids, alkalis, heavy metal compounds, oxidising material, combustible materials.
	P233	Keep container tightly closed.
	P234	Keep only in original container.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P411+P235	Store at temperatures not exceeding (-10) - (+25)°C. Keep cool.
	P501	Dispose of contents/container in accordance with national regulations.

#### Commission Regulation (EU) No 2015/830 of 28 May 2015.

**Contains** 2,4-Pentanedione, 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

2,4-Pentanedione, peroxide		%25-40	
<b>CAS Number</b>	<b>37187-22-7</b>	<b>EC Number</b>	<b>253-384-9</b>
<b>Classification</b>			
Org. Perox. D	H242		
Skin Sens. 1	H317		
Eye Irrit. 2	H319		
4-hydroxy-4-methylpentan-2-one (diacetone alcohol)		%40-60	
<b>CAS Number</b>	<b>123-42-2</b>	<b>EC Number</b>	<b>204-626-7</b>
<b>Classification</b>			
Flam. Liq. 3	H226		
Eye Irrit. 2	H319	Eye Irrit. 2; : C ≥ 10 %	
STOT SE 3	H335		

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<b>2,2'-oxydiethanol</b>		<b>%5-10</b>	
<b>CAS Number</b>	<b>111-46-6</b>	<b>EC Number</b>	<b>203-872-2</b>
<b>Classification</b>			
Acute Tox. 4	H302		
STOT RE 2	H373		

<b>Hydrogen Peroxide Solution</b>		<b>%1-5</b>	
<b>CAS Number</b>	<b>7722-84-1</b>	<b>EC Number</b>	<b>231-765-0</b>
<b>Classification</b>			
Ox. Liq. 1	H271		
Acute Tox. 4	H302		
Acute Tox. 4	H332		
Skin Corr. 1A	H314		
STOT Se 3	H335		

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

<b>General information</b>	Move out of dangerous areas. 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>	Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove victim immediately from source of exposure. Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

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**Protection of first aiders** 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

**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** Nausea, vomiting. Dizziness.

**Ingestion** May cause stomach pain or vomiting.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** Irritation of eyes and mucous membranes.

#### 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.

**Unsuitable extinguishing Media** Halon. Direct water jet.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** In case of fire, toxic gases may be formed. Vapours may form explosive air mixtures even at room temperature. Containers can burst violently when heated, due to excess pressure build-up

#### Hazardous decomposition products

Fire causes formation of toxic gases. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks.

#### 5.3. Advice for firefighters

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**Protective actions during firefighting** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Face mask, protective gloves and safety helmet.

**Special protective equipment for firefighters** Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. If possible, fight fire from protected position. Move container from fire area if it can be done without risk. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

#### 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. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

##### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

##### 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

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#### Usage precautions

Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted 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 is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Mechanical ventilation or local exhaust ventilation may be required. Container must be kept tightly closed. Protect against direct sunlight.

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

##### Storage precautions

Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Store away from: Acids. Alkalis. Heavy metal compounds. Oxidising material - Keep away from flammable and combustible materials. Store in closed original container at temperatures between (-10) - (+25)°C. Provide an adequate ventilation system.

#### 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

##### Occupational exposure limits

Name	STD	TWA - 8 Hrs.		STEL - 15 Min.		Notes
2,2' -oksibisetanol	WEL	23 ppm	101 mg/m <sup>3</sup>			
DIACETONE ALCOHOL Technical	WEL	50 ppm	241 mg/m <sup>3</sup>	75 ppm	362 mg/m <sup>3</sup>	
HYDROGEN PEROXIDE SOLUTION... %	WEL	1 ppm	1,4 mg/m <sup>3</sup>	2 ppm	2,85 mg/m <sup>3</sup>	

#### 8.2. Exposure controls

##### Protective equipment



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<b>Appropriate engineering controls</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.
<b>Eye/face protection</b>	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.
<b>Hand protection</b>	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.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	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. Isolate contaminated clothing and wash before reuse. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash promptly with soap & water if skin becomes contaminated.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear suitable mask. 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. Gas and combination filter cartridges should comply with European Standard EN14 387 and EN143. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
<b>Environmental exposure controls</b>	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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#### SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid
Colour	Colorless
Odour	Characteristic.
Melting point	No data available.
Flash point	No data available.
Flammability (solid, gas)	Not applicable
Relative vapour density	No data available.
Density	1,05 ± 0,005 gr/cm <sup>3</sup> (@20°C)
Solubility(ies)	Partially soluble in water.
Viscosity	21 mPa.s (@20°C)

##### 9.2. Other information

Active Oxygen Content	4,0 - 4,2%
SADT	60°C

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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##### 10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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##### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not available.
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##### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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##### 10.5. Incompatible materials

Materials to avoid	Strong alkalis. Strong acids. Strong oxides. Strong reducing agents. Heavy metals.
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##### 10.6. Hazardous decomposition products



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**Hazardous decomposition Products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Toxicological information

The product is not tested.

###### Serious eye damage/irritation:

Causes serious eye damage.

###### Skin corrosion/irritation:

Not available.

###### Respiratory or skin sensitisation:

###### Skin sensitisation

May cause an allergic skin reaction.

###### Germ cell mutagenicity:

Genotoxicity - In Vitro - In Vivo

Not available.

###### Carcinogenicity:

Not available.

###### Reproductive Toxicity:

Not available.

###### Reproductive Toxicity – Development

Not available.

###### Specific target organ toxicity - single exposure:

STOT - Single exposure

No information required.

###### Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

No information required.

###### Aspiration Hazard

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No data available.

#### Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

#### Ingestion

Irritating. May cause nausea, stomach pain and vomiting.

#### Skin contact

Prolonged and frequent contact may cause redness and irritation.

#### Eye contact

Irritating and may cause redness and pain.

#### Toxicological information on ingredients.

	<b>DIACETONE ALCOHOL Technical (CAS: 123-42-2)</b>
Acute Toxic Dose 1 – LD 50	4000 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	13.500 mg/kg (dermal - rabbit)
	<b>2,2'-OXYBISETHANOL (CAS: 111-46-6)</b>
Acute Toxic Dose 1 – LD 50	12565 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	11890 mg/kg (dermal - rabbit)
	<b>Acetyl Acetone Peroxide (CAS: 37187-22-7)</b>
Acute Toxic Dose 1 – LD 50	>2000 mg/kg (oral - rat)
Acute Toxic Dose 2 – LD 50	>2000 mg/kg (dermal - rat)
Acute Toxic Conc. - LC 50	13.11 mg/ppm/1h (inh - rat)

#### SECTION 12: Ecological Information

##### 12.1. Toxicity

#### Ecological information on ingredients.

	<b>2,2'-OXYBISETHANOL (CAS: 111-46-6)</b>
LC 50, 96 Hrs, Fish	75200 mg/L (Pimephales promelas)
EC 50, 48 Hrs, Daphnia	84000 mg/l

##### 12.2. Persistence and degradability

**Persistence and degradability** The product is easily biodegradable.

##### 12.3. Bio accumulative potential

**Bio accumulative potential** No data available on bioaccumulation.

##### 12.4. Mobility in soil

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**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

**General information** Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. When handling waste, consideration should be made to the safety precautions applying to handling of the product

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). 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)	3105
UN No. (IMDG)	3105
UN No. (ICAO)	3105
UN No. (ADN)	3105

#### 14.2. UN proper shipping name

**Proper Shipping name (ADR/RID)** ORGANIC PEROXIDE TYPE D, LIQUID (2,4-Pentanedione, peroxide)

**Proper Shipping name (IMDG)** ORGANIC PEROXIDE TYPE D, LIQUID (2,4-Pentanedione, peroxide)

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**Proper Shipping name (ICAO)**                      ORGANIC PEROXIDE TYPE D, LIQUID (2,4-Pentanedione, peroxide)

**Proper Shipping name (ADN)**                      ORGANIC PEROXIDE TYPE D, LIQUID (2,4-Pentanedione, peroxide)

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

<b>ADR/RID class</b>	5.2
<b>ADR/RID label</b>	5.2
<b>IMDG class</b>	5.2
<b>ICAO class/division</b>	5.2

#### Transport labels



#### 14.4. Packing group

Not applicable.

#### 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.

<b>EmS</b>	F-J, S-R
<b>Emergency Action Code</b>	2W
<b>Tunnel restriction code</b>	(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

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#### 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

##### 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

Eye Irrit. 2 - H319; Skin Sens. 1 - H317: Calculation Method. Org. Perox. D H242  
Expert Judgement.

##### 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.

##### Issued By

Melih Babayiğit / CRAD Çevre Risk Analiz Denetim ve Eğitim Hizm. Ltd.Şti.  
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##### Issued Date

24.11.2009

##### Revised By

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##### Revision date

04.04.2018

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<b>Revision</b>	3.0
<b>Hazard statements in full</b>	<p>H242 Heating may cause a fire.</p> <p>H271 May cause fire or explosion; strong oxidizer.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p>

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.