

SAFETY DATA SHEET**AKPEROX A2**

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 A2
Chemical name Methyl Ethyl Ketone 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

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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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. D - H242
Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards Not Classified.

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

H242 Heating may cause a fire.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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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.
- P234** Keep only in original container.
- P280** Wear protective gloves/protective clothing/ eye protection/ face protection.
- P301+P312 IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P411+P235** Store at temperatures not exceeding (5) - (30)°C. Keep cool.
- P501** Dispose of contents/ container in accordance with national regulations.

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

Contains

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide

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

Dimethyl Phthalate		%40-65	
REACH Reg. No: 01-2119437229-36-0008			
CAS Number	131-11-3	EC Number	205-011-6
Classification Not Classified.			

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide		%25-40	
REACH Reg. No: 01-2119514691-43-0007			
CAS Number	1338-23-4	EC Number	700-954-4
Classification			
Org. Perox. D	H242		
Acute Tox. 4	H302		
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Acute Tox. 4	H332		

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2,2' –oxybisethanol		%5-10	
REACH Reg. No: 01-2119457857-21			
CAS Number	64742-82-1	EC Number	919-446-0
Classification			
Acute Tox. 4	H302		

BUTANONE		%5-10	
REACH Reg. No: 01-2119457290-43-0004			
CAS Number	78-93-3	EC Number	201-159-0
Classification			
Flam. Liq. 2	H225		
Eye Irrit. 2	H319		
STOT SE 3	H336		

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

Effects may be delayed. Keep affected person under observation. Chemical burns must be treated by a physician.

Inhalation

Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

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.

Eye contact

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.

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

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General information	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.
Inhalation	Nausea, vomiting. Dizziness.
Ingestion	May cause stomach pain or vomiting. Chemical burns.
Skin contact	May cause serious chemical burns to the skin.
Eye contact	May cause severe eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.

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 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 Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. 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 Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

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

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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**

Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Do not touch or walk into spilled material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

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. 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

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Storage precautions

Keep away from oxidising materials, 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 the following materials: Acids. Alkalis. Keep away from flammable and combustible materials.

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

Ingredients	CAS No.	Value	Control Parameters	Note	
Dimethyl phthalate	131-11-3	TWA	5 mg/m ³	ACGIH NIOSH REL OSHA Z-1 OSHA P0 CAL PEL	
		MPC-TWA	0,3 mg/m ³	RU OEL	Mixture of vapour and aerosol
		MPC-Stel	1 mg/m ³	RU OEL	Mixture of vapour and aerosol
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	1338-23-4	C	0.2 ppm	ACGIH	
			0.2 ppm 1.5 mg/m ³	NIOSH REL	
			0.7 ppm 5 mg/m ³	OSHA P0	
			0.2 ppm 1.5 mg/m ³	CAL PEL	
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	ACGIH	
		MPC-TWA	200 mg/m ³	RU OEL	Vapour and/or gas
		STEL	300 ppm	ACGIH	
		MPC-STEL	400 mg/m ³	RU OEL	Vapour and/or gas
		TWA	200 ppm 590 mg/m ³	NIOSH REL OSHA Z-1 OSHA P0 CAL PEL	
		ST	300 ppm 885 mg/m ³	NIOSH REL OSHA P0 CAL PEL	

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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.

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

Appearance	Clear liquid.
Colour	Colorless.
Odour	Characteristic.
Density	1,14 ± 0,005 gr/cm ³ @20°C

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Solubility(ies)	Partially soluble in water.
Flammability (solid, gas)	Not applicable.
Viscosity, dynamic	No data available.

9.2. Other information

SADT	60°C
Active Oxygen Content	8,9 - 9,1 %

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 at normal ambient temperatures.
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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 reducing agents. Strong oxidising agents. Some metals.
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10.6. Hazardous decomposition products

Hazardous decomposition Products	Oxides of carbon. Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrocarbons. Formic acid, acetic acid, propionic acid, methyl ethyl ketone.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects****Product Information**

Toxicological information	ATE _{KARISIM} , oral 1036 mg/kg
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Serious eye damage/irritation:	Causes burns.
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Skin corrosion/irritation:	Causes burns.
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Respiratory or skin sensitisation:

Respiratory sensitisation	Based on available data the classification criteria are not met.
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Skin sensitisation	Based on available data the classification criteria are not met.
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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.
Ingestion	Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes burns. Harmful in contact with skin. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Causes burns.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	Respiratory system, lungs
Medical considerations	Skin disorders and allergies.

Toxicology Data For The Ingredients:**Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide**

Acute oral toxicity	LD50: 1017 mg/kg	Species: Rat
Acute dermal toxicity	LD50: 4000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 17 mg/l	Exposure time: 4h

Dimethyl phthalate

Acute oral toxicity	LD50: >5000 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >10000 mg/kg	Species: Rabbit
Acute inhalation toxicity	The substance or mixture has no acute inhalation toxicity	

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Butanone

Acute oral toxicity	LD50: 2,737 mg/kg	Species: Rat
Acute dermal toxicity	LD50: 6,480 mg/kg	Species: Rabbit

2,2'-oxybisethanol

Acute oral toxicity	LD50: 19600mg/kg	Species: Rat
Acute dermal toxicity	LD50: 13300 mg/kg	Species: Rabbit

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.**Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide**

Toxicity to fish	LC50, 96h: 44,2 mg/l
Toxicity to algae	ErC50, 72h: 5,6 mg/l/l
Toxicity to bacteria	EC10, 0,5h: 5,6 mg/l
Toxicity to daphnia and other aquatic invertebrates	39 mg/l, 48h

Butanone

Toxicity to fish	LC50, 96h: 3.220 mg/l
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Dimethyl phthalate

Toxicity to fish	LC50, 96h: 420 mg/l
Toxicity to algae	EC10, 72h: 193,09 mg/l
Toxicity to fish (Chronic Toxicity)	NOEC, 102d: 11 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic Toxicity)	NOEC, 21d: 9,6 mg/l

2,2'-Oxybisethanol

LC 50, 96 Hrs, Fish	75200 mg/l Pimephales promelas
EC 50, 24 Hrs, Daphnia	>10000 mg/L Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No data available on degradability.

12.3. Bio accumulative potential

Bio accumulative potential No data available on bioaccumulation.

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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****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)**

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 (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

Proper Shipping name (IMDG)

ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

Proper Shipping name (ICAO)

ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

Proper Shipping name (ADN)

ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

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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**

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.

EmS F-J, S-R**ADR Transport Category** 2**Emergency Action Code** 3W**Hazard Identification Number** -**(ADR/RID)****Tunnel restriction code** (D)**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code****Transport in bulk according to** Not Applicable.**Annex II of MARPOL****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).

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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

Skin Corr. 1B - H314; Eye Dam. 1 - H318: 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

Added REACH Numbers.

Issued By

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

Issued Date

22.11.2010

Revision date

25.03.2019

Revision

5.0

Hazard statements in full

H225

Highly flammable liquid and vapour.

H242

Heating may cause a fire.

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

EUH66

Repeated exposure may cause skin dryness or cracking.

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Other abbreviations**ACGIH**

USA, ACGIH Thershold Limit Values (TLV)

CAL PEL

California permissible exposure limits for chemical contaminants (Title 8, Article 107)

NIOSH REL

USA NIOSH Recommended Exposure Limits

OSHA P0

USA OSHA – TABLE Z-1 Limits for air contaminants – 1910.1000

OSHA Z-1

Usa Occupational Exposure Limits (OSHA) – Table Z-1 Limits for air contaminants

ACGIH/TWA

8-hour, time-weighted average

ACGIH/STEL

Short-term exposure limit

ACGIH/C

Ceiling limit

CAL PEL/STEL

Short term exposure limit

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.