



SAFETY DATA SHEET **AKPEROX A50**

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name AKPEROX A50

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 Kimya ve Ambalaj San.Tic.Ltd.Şti
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Contact Person Export Department - export@akpakimya.com

1.4. Emergency telephone number

AKPA Kimya : +90 549 558 4040

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Org. Perox. D - H242
Human health	Acute Tox. 4 - H302;Skin Corr. 1B - H314
Environment	Not classified.

Classification (1999/45/EEC)

Xn;R22. C;R34. O;R7.

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

Physical and Chemical Hazards

Closed containers can burst violently when heated, due to excess pressure build-up.
The product may form explosive vapours/air mixtures even at normal room temperatures.

2.2. Label elements

Contain Methyl ethyl ketone peroxide

Label In Accordance With (EC) No. 1272/2008





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Signal Word	Danger	
Hazard Statements	H242	Heating may cause a fire.
	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
Precautionary Statements	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.
	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.
	P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P411+235	Store at temperatures not exceeding (5) – (30)°C. Keep cool.
	P501	Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Methyl ethyl ketone peroxide		25 – 40 %
*REACH Pre – Reg. No : 05-2115132669-40-0000		
CAS NO: 1338-23-4		EC NO.: 215-661-2
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Org. Perox. C - H242	Xn; R22.	
Acute Tox. 4 - H302	C; R34	
Skin Corr. 1B - H314	O; R7.	
Butanone		1 – 5 %
CAS NO: 78-93-3		EC NO.: 201-159-0
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 2 - H225	F; R11	
EUH066	Xi; R36	
Eye Irrit. 2 - H319	R66	
STOT SE 3 - H336	R67	

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

Substances with Exposure Limits : See section 8

EC NO: 131-11-3	CAS NO: 205-011-6	Dimethyl Phthalate
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Composition Comments

*Last registration date is 31.05.2018.

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

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

Inhalation

Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

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.

Eye contact

Remove victim immediately from source of exposure. 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 immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

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 irritation to eyes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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

Unusual Fire & Explosion Hazards

Fire causes formation of toxic gases. Forms explosive mixtures with air.

May explode when heated or when exposed to flames or sparks.



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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.

5.3. Advice for firefighters

Special Fire Fighting Procedures

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.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

Do not allow ANY environmental contamination.

6.3. Methods and material for containment and 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. DO NOT TOUCH SPILLED MATERIAL! Wear necessary protective equipment.

6.4. Reference to 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

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. 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

Flammable/combustible - Keep away from oxidisers, heat and flames.
Store in tightly closed original container in a dry, cool [(5) – (30)°C] 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.

7.3. Specific end use(s)

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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Butanone	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)	
Methyl Ethyl Ketone Peroxide	WEL			0.2 ppm	1.5 mg/m ³	
Dimethyl Phthalate	WEL		5 mg/m ³		10 mg/m ³	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory equipment

In case of inadequate ventilation use suitable respirator. Check that mask fits tight and change filter regularly.

Hand protection

Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

If risk of splashing, wear safety goggles or face shield.

Hygiene measures

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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Skin protection

Protection suit must be worn.

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	Colourless liquid.
Colour	Colourless.
Odour	Characteristic.
Solubility	Partially soluble in water.



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Relative density 1, 18 gr/cm³ (@20° C)

Viscosity 24 mPa.s (@20° C)

9.2. Other information

Active Oxygen 8, 8 - 9, 0

SADT 60°C

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong alkalis. Strong acids. Strong oxides. Strong reducing agents. Heavy metals.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

The product is not tested.

Serious eye damage/irritation:

Causes burns.

Respiratory or skin sensitisation:

Skin sensitisation

Not available.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Mutagenic – Ames Test.

Genotoxicity - In Vivo

Not available.

Carcinogenicity:

Not available.



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Reproductive Toxicity:

Reproductive Toxicity - Fertility

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

No data available.

Inhalation

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

Ingestion

Irritating. May cause nausea, stomach pain and vomiting.

Skin contact

Prolonged and frequent contact may cause redness and irritation.

Eye contact

Causes burns.

Toxicological information on ingredients.

BUTANONE (CAS: 78-93-3)

Acute Toxic Dose 1 – LD 50	2737	mg/kg	(oral - rat)
Acute Toxic Dose 2 – LD 50	607	mg/kg	(ipr- rat)
Acute Toxic Conc. - LC 50	23500	mg/m ³ /8h	(inh - rat)

Methyl ethyl ketone peroxide (CAS: 1338-23-4)

Acute Toxic Dose 1 – LD 50	484	mg/kg	(oral - rat)
Acute Toxic Dose 2 – LD 50	500	mg/kg	(dermal - rat)
Acute Toxic Conc. - LC 50	200	ppm/4h	(inh - rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Ecological information on ingredients.

BUTANONE (CAS: 78-93-3)

LC 50, 96 Hrs, Fish	3.22	mg/l
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12.2. Persistence and degradability



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Degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative 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

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

May be hazardous to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

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.

13.1. Waste treatment 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

14.1. UN number

UN No. (ADR/RID/ADN)	3105
UN No. (IMDG)	3105
UN No. (ICAO)	3105

14.2. UN proper shipping name

Proper Shipping Name	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	5.2
ADR/RID/ADN Class	Class 5.2: Organic peroxides.
ADR Label No.	5.2
IMDG Class	5.2
ICAO Class/Division	5.2

Transport Labels



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14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS F-J, S-R

Emergency Action Code 2WE

Tunnel Restriction Code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Health and Safety at Work Act 1974.

Fire precautions Act 1971.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

CHIP for everyone HSG(108).

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material.

Information Sources



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

Revision Comments

The SDS is generated in accordance with the 1907/2006 REACH and 1272/2008 CLP regulations.

Issued By

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Risk Phrases In Full

R34 Causes burns.
R22 Harmful if swallowed.
R11 Highly flammable.
R36 Irritating to eyes.
R7 May cause fire.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.
H225 Highly flammable liquid and vapour.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Disclaimer

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.