

**SAFETY DATA SHEET****AKPEROX ER11**

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 ER11  
**Chemical name** Methyl Ethyl Ketone Peroxide / 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**

**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  
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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 CHEMICALS US: +1 803 686 2888

**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; STOT SE 3 - H335  
**Environmental hazards** Not classified.

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

**H242** Heating may cause a fire.  
**H302** Harmful if swallowed.

## SAFETY DATA SHEET

### AKPEROX ER11

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

- H314** Causes severe skin burns and eye damage.
- H335** May cause respiratory irritation.

#### Precautionary statements

- P220** Keep away from acids, alkalis, heavy metal compounds, oxidizing material, combustible materials.
- P233** Keep container tightly closed.
- P235** Keep cool.
- P260** Do not breathe dust/ fume/ gas/ mist/ vapours/spray.
- P262** Do not get in eyes, on skin, or on clothing.
- 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.
- P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P315** Get immediate medical advice/ attention.
- 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, 3,5-dimethyl-1,2-dioxolane-3,5-diol, 4-hydroxy-4-methylpentan-2-one

#### 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

<b>4-hydroxy-4-methylpentan-2-one (diacetone alcohol)</b>		<b>%30&gt;</b>	
<b>REACH Reg. No: 01-2119473975-21-0003</b>			
<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		

## SAFETY DATA SHEET

## AKPEROX ER11

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

<b>Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide</b>		<b>%20-25</b>	
<b>REACH Reg. No: 01-2119514691-43-0007</b>			
<b>CAS Number</b>	<b>1338-23-4</b>	<b>EC Number</b>	<b>700-954-4</b>
<b>Classification</b>			
Org. Perox. D	H242		
Acute Tox. 4	H302		
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Acute Tox. 4	H332		

<b>3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)</b>		<b>%10&gt;</b>	
<b>REACH Reg. No: 01-2119965139-28-0007</b>			
<b>CAS Number</b>	<b>13784-51-5</b>	<b>EC Number</b>	<b>237-438-9</b>
<b>Classification</b>			
Org. Perox. D	H242		
Skin Sens. 1	H317		
Eye Irrit. 2	H319		

<b>Butanone</b>		<b>%1&gt;</b>	
<b>REACH Reg. No: 01-2119457290-43-0004</b>			
<b>CAS Number</b>	<b>78-93-3</b>	<b>EC Number</b>	<b>201-159-0</b>
<b>Classification</b>			
Flam. Liq. 2	H225		
Eye Irrit. 2	H319		
STOT SE 3	H336		

<b>Hydrogen Peroxide Solution</b>		<b>%2&gt;</b>	
<b>REACH Reg. No: 01-2119485845-22-0000</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		

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 ER11**

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

<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.
<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.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
<b>General information</b>	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.
<b>Inhalation</b>	Nausea, vomiting. Dizziness.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
<b>Notes for the doctor</b>	Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

**SAFETY DATA SHEET****AKPEROX ER11**

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

**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**

**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.

**SAFETY DATA SHEET****AKPEROX ER11**

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. 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 (+5) - (+30)°C. Provide an adequate ventilation system.

**Storage Class**

III

**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:**

## SAFETY DATA SHEET

### AKPEROX ER11

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

Ingredients	CAS No.	Value	Control Parameters	Basis
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 <sup>3</sup>	NIOSH REL
			0.7 ppm 5 mg/m <sup>3</sup>	OSHA P0
			0.2 ppm 1.5 mg/m <sup>3</sup>	CAL PEL
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		PEL	1 ppm 1.4 mg/m <sup>3</sup>	OSHA Z-1
		STEL	2 ppm 2.8 mg/m <sup>3</sup>	ACGIH
4-hydroxy-4-methylpentan-2-one (diacetone alcohol)	123-42-2	TWA	50 ppm 241 mg/m <sup>3</sup>	GB EH40
		STEL	75 ppm 362 mg/m <sup>3</sup>	GB EH40
		TWA	50 ppm	ACGIH
		TWA	50 ppm 240 mg/m <sup>3</sup>	NIOSH REL OSHA Z-1 OSHA P0
		AGW	20 ppm 96 mg/m <sup>3</sup>	DE TRGS 900
Butanone	78-93-3	TWA	200 ppm	ACGIH
		MPC-TWA	200 mg/m <sup>3</sup>	RU OEL
		STEL	300 ppm	ACGIH
		MPC-STEL	400 mg/m <sup>3</sup>	RU OEL
		TWA	200 ppm 590 mg/m <sup>3</sup>	NIOSH REL OSHA Z-1 OSHA P0 CAL PEL
		ST	300 ppm 885 mg/m <sup>3</sup>	NIOSH REL OSHA P0 CAL PEL

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

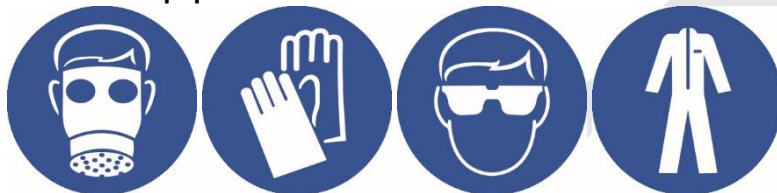
Substance name	End Use	Exposure routes	Potential health effects	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)	Workers	Inhalation	Long-term systemic effects	11,75 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	13,33 mg/kg bw/day

**SAFETY DATA SHEET****AKPEROX ER11**

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

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

Substance name	Environmental Compartment	Value
<b>3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)</b>	Fresh water	0,054 mg/l
	Marine water	0,0054 mg/l
	Intermittent use/release	0,054 mg/l
	Fresh water sediment	0,48 mg/kg
	Marine sediment	0,048 mg/kg
	Sewage treatment plant	6,2 mg/kg
	Soil	0,065 mg/l

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

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.

**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.



**SAFETY DATA SHEET****AKPEROX ER11**

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

<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 controls according to local and national provisions.

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colorless .
<b>Odour</b>	Very faint, mint-like.
<b>Melting point</b>	No data available.
<b>Flash point</b>	No data available.
<b>Flammability (solid, gas)</b>	Not applicable
<b>Relative vapour density</b>	No data available.
<b>Density</b>	1,02± 0,005 gr/cm <sup>3</sup> (@20°C)
<b>Solubility(ies)</b>	Soluble in water.
<b>Viscosity</b>	19 mPa.s (@20°C)

**9.2. Other information**

<b>Active Oxygen Content</b>	7,5 - 7,9 %
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

**SAFETY DATA SHEET****AKPEROX ER11**

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

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>10.2. Chemical stability Stability</b>	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions Possibility of hazardous reactions</b>	Vapours may form explosive mixture with air.
<b>10.4. Conditions to avoid Conditions to avoid</b>	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
<b>10.5. Incompatible materials Materials to avoid</b>	Strong alkalis. Strong acids. Strong oxides. Strong reducing agents. Metals.
<b>10.6. Hazardous decomposition products Hazardous decomposition Products</b>	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition.

**SECTION 11: Toxicological information**

<b>11.1. Information on toxicological effects Product Information</b>	
<b>Toxicological information</b>	The product is not tested.
<b>Serious eye damage/irritation: Skin corrosion/irritation:</b>	Causes serious eye damage. Causes severe burns.
<b>Respiratory or skin sensitisation: Respiratory sensitisation Skin sensitisation</b>	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
<b>Germ cell mutagenicity:</b>	Genotoxicity - In Vitro - In Vivo Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive Toxicity - Fertility Reproductive Toxicity – Development</b>	May damage the unborn child. Suspected of damaging fertility Based on available data the classification criteria are not met.
<b>Specific target organ toxicity - single exposure: STOT - Single exposure</b>	May cause respiratory irritation.

**SAFETY DATA SHEET****AKPEROX ER11**

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

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

Ingestion May cause discomfort if swallowed.

Skin contact May cause an allergic skin reaction.

Eye contact Irritating and may cause redness and pain.

**Toxicology Data For The Ingredients:****3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)**

Acute oral toxicity	LD50: >2000 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >2000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 13,1 mg/l	Exposure time: 1h

**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

**4-hydroxy-4-methylpentan-2-one (diacetone alcohol)**

Acute oral toxicity	LD50: 3002 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >1875 mg/kg	Species: Rabbit
Acute inhalation toxicity	LC50 (Rat): ≥7,6 mg/l	Exposure time: 4h

**Butanone**

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

**Hydrogen Peroxide**

Acute oral toxicity	LD50: >225 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): >0,17 mg/l	Exposure time: 4h

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

**SAFETY DATA SHEET****AKPEROX ER11**

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

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

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

**Butanone**

<b>Toxicity to fish</b>	LC50, 96h: 3.220 mg/l
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**3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)**

<b>Toxicity to fish</b>	LC50, 96h: (Danio rerio (zebra fish)): > 67.6 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50, 48h: (Daphnia magna (Water flea)): 7.05 mg/l
<b>Toxicity to algae</b>	EC50, 72h: (Pseudokirchneriella subcapitata (green algae)): 5.36 mg/l
<b>Toxicity to microorganisms</b>	EC50, 3h: 614 mg/l

**4-hydroxy-4-methylpentan-2-one (diacetone alcohol)**

<b>Toxicity to fish</b>	LC50, 96h: (Oryzias latipes (Orange-red killifish)): > 100 mg/l
<b>Toxicity to algae</b>	EC50, 72h: (Pseudokirchneriella subcapitata (green algae)): >1.000 mg/l
<b>Toxicity to microorganisms</b>	EC50, 3h: > 1.000 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50, 48h: (Daphnia magna (Water flea)): > 1.000 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****Mobility** No data available.**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** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SAFETY DATA SHEET

### AKPEROX ER11

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

#### 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 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
Proper Shipping name (IMDG)	ORGANIC PEROXIDE TYPE D, LIQUID
Proper Shipping name (ICAO)	ORGANIC PEROXIDE TYPE D, LIQUID
Proper Shipping name (ADN)	ORGANIC PEROXIDE TYPE D, LIQUID

#### 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



**SAFETY DATA SHEET****AKPEROX ER11**

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

**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**Emergency Action Code** 2WE**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).

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).

**Storage Class**

III

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SAFETY DATA SHEET****AKPEROX ER11**

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

**SECTION 16: Other information**

<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>	Acute Tox. 4 - H302; Skin Corr. 1B - H314; Eye Dam. 1 - H318; STOT SE 3 - H335 Calculation Method. Org. Perox. D 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.
<b>Issued By</b>	Simge ARIK - lab@akpakimya.com +90 282 361 80 99
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<b>Revision</b>	2.0
<b>Hazard statements in full</b>	
<b>H242</b>	Heating may cause a fire.
<b>H271</b>	May cause fire or explosion; strong oxidizer.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H332</b>	Harmful if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>Other abbreviations</b>	
<b>ACGIH</b>	USA, ACGIH Thershold Limit Values (TLV)
<b>NIOSH REL</b>	USA NIOSH Recommended Exposure Limits
<b>OSHA P0</b>	USA OSHA – TABLE Z-1 Limits for ait contaminants – 1910.1000
<b>OSHA Z-1</b>	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for air contaminants
<b>ACGIH/TWA</b>	8-hour, time-weighted average
<b>ACGIH/STEL</b>	Short-term exposure limit
<b>ACGIH/C</b>	Ceiling limit

**SAFETY DATA SHEET****AKPEROX ER11**

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

<b>NIOSH REL/TWA</b>	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
<b>NIOSH REL/S</b>	STEL-15minute TWA exposure that should not be exceeded at any time during a workday
<b>SIOSH REL/C</b>	Celing value not be exceeded at any time
<b>OSHA PO/TWA</b>	8-hour time weighted average
<b>OSHA PO/STEL</b>	Short-term exposure limit
<b>OSHA PO/C</b>	Ceiling limit
<b>OSHA Z-1/TWA</b>	8-hour time weighted average
<b>OSHA PO/STEL</b>	Short-term exposure limit
<b>OSHA PO/C</b>	Ceiling limit
<b>OSHA Z-1/TWA</b>	8-hour time weighted average
<b>RU OEL / MPC-STEL</b>	Russia. Maximum Permissible Concentration – Short Term Exposure
<b>RU OEL / MPC-TWA</b>	Russia. Maximum Permissible Concentration – Time Weighted Average

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.