

**SAFETY DATA SHEET****AKPEROX MIKP**

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 MIKP  
**Chemical name** Methyl Isobutyl 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  
Web: www.akpakimya.com  
TEL: +90 212 580 55 59  
FAX: +90 212 580 55 21  
E-mail: info@akpakimya.com  
**Contact person** Export Department - export@akpakimya.com

**1.4. Emergency telephone number**

**Emergency telephone** CHEMTREC: TOLL Free 1-800-424-9300 / Local: +1-703-527-3887  
**For product information** AKPA KİMYA: +90 549 558 40 40

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

**Physical hazards** Flam. Liq. 3 - H226; Org. Perox. D - H242  
**Health hazards** Acute Tox. 4 - H302; Asp. Tox. 1 - H304; Skin Sens. 1 - H317; Skin Corr. 1C - H314; Eye Dam. 1 - H318; Acute Tox. 4 - H332  
**Environmental hazards** Aquatic Chronic 2 - H411

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

**H226** Flammable liquid and vapour.  
**H242** Heating may cause a fire.

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- H302+H332** Harmful if swallowed or if inhaled  
**H304** May be fatal if swallowed and enters airways.  
**H314** Causes severe skin burns and eye damage.  
**H317** May cause an allergic skin reaction.  
**H411** Toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P220** Keep away from acids, alkalis, heavy metal compounds, oxidizing material, combustible materials.  
**P273** Avoid release to the environment.  
**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.  
**P304+P340 IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P411+P235** Store at temperatures not exceeding (5) - (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**

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide, Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated, hydrogen peroxide solution

**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**

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Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide		REACH Reg. No: 01-2120103792-63-0004		%40-50
<b>CAS Number</b>	<b>37206-20-5</b>	<b>EC Number</b>	<b>942-932-9</b>	
<b>Classification</b>				
Flam. Liq. 3	H226			
Org. Perox. D	H242			
Acute Tox. 4	H302			
Asp. Tox. 1	H304			
Skin Corr. 1B	H314			
Skin Sens. 1	H317			
Eye Dam. 1	H318			
Acute Tox. 4	H332			
Aquatic Chronic 2	H411			

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		REACH Reg. No: 01-2119490725-29-0000		%20-30
<b>CAS Number</b>	<b>93685-81-5</b>	<b>EC Number</b>	<b>297-629-8</b>	
<b>Classification</b>				
Flam. Liq. 3	H226			
Asp. Tok. 1	H304			
Aquatic Chronic 4	H413			
EUH066				

Hydrogen Peroxide Solution		REACH Reg. No: 01-2119490725-29-0000		%5-10
<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			

4-methylpentan-2-one / Methyl Isobutyl Ketone		REACH Reg. No: 01-2119490725-29-0000		%5-10
<b>CAS Number</b>	<b>108-10-1</b>	<b>EC Number</b>	<b>203-550-1</b>	
<b>Classification</b>				
Flam. Liq. 2	H225			
Eye Irrit. 2	H319			
Acute Tox. 4	H332			
STOT SE 3	H335			

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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**

Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

**Ingestion**

Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. 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****General information**

Move out of dangerous area. Show this Safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.

**Inhalation**

Vapours may cause drowsiness and dizziness.

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<b>Ingestion</b>	Congestion of the lungs may occur producing severe shortness of breath. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause serious chemical burns to the skin.
<b>Eye contact</b>	May cause blurred vision and serious eye damage.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
<b>Notes for the doctor</b>	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** 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 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**

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#### 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 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)

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**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	Basis
Methyl isobutyl ketone	108-10-1	TWA	200 ppm 83 mg/m <sup>3</sup>	TR OEL
		STEL	50 ppm 208 mg/m <sup>3</sup>	TR OEL
		TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	100 ppm 410 mg/m <sup>3</sup>	OSHA Z-1
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

### 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.

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<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>	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.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.
<b>Environmental exposure controls</b>	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**SECTION 9: Physical and Chemical Properties**

<b>9.1. Information on basic physical and chemical properties</b>	
<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colorless.
<b>Odour</b>	Characteristic.
<b>Density</b>	0,91 ± 0,005 gr/cm <sup>3</sup> @20°C
<b>Flash Point</b>	40°C
<b>Solubility(ies)</b>	Partially soluble in water.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Viscosity</b>	4.9 mPa.s (@20°C)
<b>9.2. Other information</b>	
<b>Active Oxygen Content</b>	10,0 - 10,5 %
<b>SADT</b>	50°C

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	
<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>10.2. Chemical stability</b>	
<b>Stability</b>	Stable under normal temperature conditions and recommended use. Avoid: Contact with combustibles, Contact with peroxides. Will decompose at temperatures exceeding 50°C.



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**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** Will not polymerise.**10.4. Conditions to avoid****Conditions to avoid** Avoid excessive heat for prolonged periods of time. Keep away from heat, sparks, open flames or hot surfaces. - No smoking.**10.5. Incompatible materials****Materials to avoid** Flammable/ combustible material. Strong acids. Strong reducing agents. Bases, alkalis (organic). Organic peroxides/hydroperoxides.**10.6. Hazardous decomposition products****Hazardous decomposition Products** Oxides of carbon. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Product Information****Toxicological information****Acute oral toxicity** The product is not tested.**Serious eye damage/irritation:  
Skin corrosion/irritation:** Serious eye damage.  
Causes burns.**Respiratory or skin sensitisation:  
Respiratory sensitisation  
Skin sensitisation** Based on available data the classification criteria are not met.  
May cause an allergic skin reaction.**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  
Reproductive Toxicity –  
Development** Based on available data the classification criteria are not met.  
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.

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<b>Aspiration Hazard</b>	May be fatal if swallowed and enters airways.
<b>Inhalation</b>	May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Toxic by inhalation.
<b>Ingestion</b>	May cause chemical burns in mouth, oesophagus and stomach. Harmful: may cause lung damage if swallowed.
<b>Skin contact</b>	Irritating to skin. May cause sensitisation by skin contact.
<b>Eye contact</b>	Risk of serious damage to eyes.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	Respiratory system, lungs
<b>Medical considerations</b>	Skin disorders and allergies.

#### Toxicology Data For The Ingredients:

##### 2-Pentanone, 4-methyl-, peroxide / Methyl isobutyl Ketone peroxide

Acute oral toxicity	LD50: 1770 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >2000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 1.5 mg/l	Exposure time: 4h

##### Hydrogen Peroxide

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

##### Methyl isobutyl ketone

Acute oral toxicity	LD50: 2080 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >2000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 2000-4000 mg/l	Exposure time: 6h

##### Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Acute oral toxicity	LD50: >5,000 mg/kg	Species: Rat
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## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Ecological information on ingredients.

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**Methyl isobutyl ketone**

<b>Toxicity to fish</b>	LC50, 96h: (Danio rerio (zebra fish)): >179 mg/l
<b>Toxicity to algae</b>	EC50, 96h: (Pseudokirchneriella subcapitata (green algae)): 400 mg/l
	EC50, 7d: (Lemna minor (duckweed)): >146 mg/l
<b>Toxicity to bacteria</b>	IC50, Bacteria, 16h, > 1,000 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50, 48h: (Daphnia magna (Water flea)): >200 mg/l

**2-Pentanone, 4-methyl-, peroxide / Methyl isobutyl Ketone peroxide**

<b>Toxicity to fish</b>	LC50, 96h: 48 mg/l
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**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated**

<b>Toxicity to algae</b>	IC50, 72h: >0,04 mg/l
<b>Toxicity to daphnia</b>	EC50, 48h: >0,04 mg/l

**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.

**12.4. Mobility in soil**

**Mobility** The product is water soluble and may spread in water systems.

**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** Not available.

**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

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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 (Methyl Isobutyl Ketone Peroxide)
Proper Shipping name (IMDG)	ORGANIC PEROXIDE TYPE D, LIQUID (Methyl Isobutyl Ketone Peroxide)
Proper Shipping name (ICAO)	ORGANIC PEROXIDE TYPE D, LIQUID (Methyl Isobutyl Ketone Peroxide)
Proper Shipping name (ADN)	ORGANIC PEROXIDE TYPE D, LIQUID (Methyl Isobutyl Ketone Peroxide)

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

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

**Transport labels****14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

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**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>ADR Transport Category</b>	2
<b>Emergency Action Code</b>	2WE
<b>Hazard Identification Number (ADR/RID)</b>	-
<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****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.

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<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Acute Tox. 4 - H302; Asp. Tox. 1 - H304; Skin Sens. 1 - H317; Skin Corr. 1C - H314; Eye Dam. 1 - H318; Acute Tox. 4 - H332; Aquatic Chronic 2 - H411: Calculation Method. Flam. Liq. 3 - H226; 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 REACH regulation. Revised Section 2. and 3.
<b>Issued By</b>	Simge ARIK - lab@akpakimya.com +90 282 361 80 99
<b>Issued Date</b>	01.12.2009
<b>Revision date</b>	25.05.2019
<b>Revision</b>	4.0
<b>Hazard statements in full</b>	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
<b>Other abbreviations</b>	
TWA	Time Weighted Average
STEL	Short term exposure limit
ACGIH	USA, ACGIH Thershold Limit Values (TLV)
PEL	Permissible exposure limits for chemical contaminants.
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

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<b>ACGIH/STEL</b>	Short-term exposure limit
<b>ACGIH/C</b>	Ceiling limit
<b>CAL PEL/STEL</b>	Short term exposure limit
<b>CAL PEL/PEL</b>	Permissible exposure limit
<b>CAL PEL/C</b>	Ceiling
<b>NIOSH REL/TWA</b>	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
<b>NIOSH REL/ST</b>	STEL-15minute TWA exposure that should not be exceeded at any time during a workday
<b>NIOSH REL/C</b>	Ceiling value not be exceeded at any time
<b>OSHA P0/TWA</b>	8-hour time weighted average
<b>OSHA P0/STEL</b>	Short-term exposure limit
<b>OSHA P0/C</b>	Ceiling limit
<b>OSHA Z-1/TWA</b>	8-hour 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.