

**SAFETY DATA SHEET****AKPEROX ZZ 350**

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 ZZ 350  
**Chemical name** Acetyl Acetone Peroxide and t-Amyl-Peroxy-3,5,5-Trimethyl-Hexanoate

**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** Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335  
**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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- H317** May cause an allergic skin reaction.  
**H319** Causes serious eye irritation.  
**H335** May cause respiratory irritation.  
**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.  
**P234** Keep only in original container.  
**P273** Avoid release to the environment.  
**P280** Wear protective gloves/ protective clothing/eye protection/ face protection.  
**P302+P352** IF ON SKIN: Wash with plenty of water.  
**P304+P340** IF INHALED: Remove person to fresh air and keep 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.  
**P403+P235** Store in a well-ventilated place. Keep cool.  
**P501** Dispose of contents/ container in accordance with national regulations.

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

3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide), 1,1-dimethylpropyl 3,5,5- trimethylperoxyhexanoate, 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**

<b>4-hydroxy-4-methylpentan-2-one (diacetone alcohol)</b>		<b>%40-60</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		

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<b>3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)</b>		<b>%25-40</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>1,1-dimethylpropyl 3,5,5-trimethylperoxyhexanoate</b>		<b>%5-15</b>	
<b>CAS Number</b>	<b>68860-54-8</b>	<b>EC Number</b>	<b>431-610-9</b>
<b>Classification</b>			
Org. Perox. D	H242		
Skin Sens. 1	H317		
Aquatic Acute 1	H400		M factor (Acute) = 1
Aquatic Chronic 1	H410		M factor (Chronic) = 1

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

<b>Hydrogen Peroxide Solution</b>		<b>%1-5</b>	
<b>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

#### General information

Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

#### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen

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tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.

**Skin contact**

Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.

**Ingestion**

No information available.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact**

Irritation of eyes.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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**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**

May cause or intensify fire; oxidiser. Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

**Hazardous decomposition products**

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

**5.3. Advice for firefighters****Protective actions during firefighting**

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. May cause or intensify fire; oxidiser. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. 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****Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

**6.2. Environmental precautions****Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

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

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**Methods for cleaning up**

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Do not allow material to enter confined spaces, due to the risk of explosion. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

**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**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational  
hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities  
Storage precautions**

Store away from incompatible materials (see Section 10). Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from other materials. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage. Protect from sunlight.

**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**

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#### 8.1. Control Parameters

##### Occupational exposure limits:

Ingredients	CAS No.	Value	Control Parameters	Basis
2,2' -oxybisethanol	111-46-6	TWA	10 mg/m <sup>3</sup>	ACGIH
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 PO
		AGW	20 ppm 96 mg/m <sup>3</sup>	DE TRGS 900

##### 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

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

Substance name	Environmental Compartment	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)	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

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**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a fullface respirator may be required instead.

**Hand protection**

It is recommended that chemical-resistant, impervious gloves are worn. 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.

**Other skin and body protection**

May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures**

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

**Respiratory protection**

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.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colorless .
<b>Odour</b>	Characteristic.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Density</b>	1.014
<b>Solubility(ies)</b>	No information available.
<b>Viscosity</b>	16 mPa.s (@20°C)

**9.2. Other information**

<b>Active Oxygen Content</b>	4,2 - 4,4 %
<b>SADT</b>	52°C

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** See the other subsections of this section for further details.

**10.2. Chemical stability**

**Stability** Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** The following materials may react strongly with the product:  
Oxidising agents.

**10.4. Conditions to avoid**

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

**10.5. Incompatible materials**

**Materials to avoid** Reducing agents. Flammable/combustible materials. Hydrocarbons. Organic cyanides (nitriles). Esters. Some metals. Oxidising materials. Acids - oxidising.

**10.6. Hazardous decomposition products**

**Hazardous decomposition Products** Oxygen. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects****Product Information****Toxicological information**

ATE oral (mg/kg) 4,347.83

ATE inhalation (vapours mg/l) 314.29

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Skin corrosion/irritation:**

Based on available data the classification criteria are not met.

**Respiratory or skin sensitisation:****Respiratory sensitisation**

Based on available data the classification criteria are not met.

**Skin sensitisation**

May cause skin sensitisation or allergic reactions in sensitive individuals.

**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.

**IARC carcinogenicity**

Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.

**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

STOT SE 3 - H335 May cause respiratory irritation.

**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**

A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact**

Irritating to eyes..

**Route of entry**

Ingestion Inhalation Skin and/or eye contact

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**Toxicology Data For The Ingredients:****2,2'-oxydiethanol**

Acute oral toxicity	LD50: 19600 mg/kg	Species: Rat
Acute dermal toxicity	LD50: 13300 mg/kg	Species: Rabbit
Acute inhalation toxicity	LC50 (Rat): >4,6 mg/l	Exposure time: 4h

**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.****2,2'-oxydiethanol**

<b>Toxicity to fish</b>	LC50, 96h 75200 mg/l Pimephales promelas
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50, 24h >10000 mg/L Daphnia magna

**1,1-dimethylpropyl 3,5,5-trimethylperoxyhexanoate**

<b>Acute aquatic toxicity</b>	LE(C) <sub>50</sub> 0.1 < L(E)C50 ≤ 1 M factor (Acute) 1
<b>Chronic aquatic toxicity</b>	M factor (Chronic) 1

**12.2. Persistence and degradability****Persistence and degradability** The degradability of the product is not known.**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** None known.**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

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#### General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

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

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**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

**14.6. Special precautions for user**

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

<b>EmS</b>	F-J, S-R
<b>Emergency Action Code</b>	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**

<b>Transport in bulk according to Annex II of MARPOL</b>	Not Applicable.
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**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).

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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**

STOT SE 3 - H335: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 2 - H411: : Calculation method. Flam. Liq. 3 - H226: Org. Perox. D - H242: : Expert judgement.

**Training advice**

Only trained personnel should use this material.

**Revision comments**

This is first issue.

**Issued By**

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

**Issued Date**

10.04.2017

**Revision date**

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**Revision**

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**Hazard statements in full**

<b>H226</b>	Flammable liquid and vapour.
<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>H317</b>	May cause an allergic skin reaction.
<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>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

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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.