

SAFETY DATA SHEET**AKPEROX A9LP**

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 A9LP
Chemical name Methyl Ethyl Ketone Peroxide

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer AKPA KİMYA AMBALAJ SANAYİ VE TİCARET ANONİM ŞİRKETİ
Yenibosna Merkez Mah. Ladin Sok. No:36/70 Kat:12 34197
Townofis Bahçelievler, İstanbul, TÜRKİYE
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 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 Repr 2. H361d
Environmental hazards Aquatic Chronic 3 H412

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

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

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H361d Suspected of damaging the unborn child.
H412 Harmful 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.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P411+P235 Store at temperatures not exceeding (5) - (30)°C. Keep cool.
P501 Dispose of contents/ container in accordance with national regulations.

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

Contains

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide; 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

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

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide		%30-35	
REACH Reg. No: 01-2119514691-43-0007			
CAS Number	1338-23-4	EC Number	700-954-4
Classification			
Org. Perox. D	H242		
Acute Tox. 4	H302		
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Acute Tox. 4	H332		

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1-isopropyl-2,2-dimethyltrimethylene diisobutyrate		%30-50	
REACH Reg. No: 01-2119451093-47-0000			
CAS Number	6846-50-0	EC Number	229-934-9
Classification			
Repr. 2	H361d		
Aquatic Chronic 3	H412		

Dimethyl Phthalate		%5-15	
REACH Reg. No: 01-2119437229-36-0008			
CAS Number	131-11-3	EC Number	205-011-6
Classification			
Not Classified.			

Hydrogen Peroxide Solution		%1-5	
REACH Reg. No: 01-2119485845-22-0000			
CAS Number	7722-84-1	EC Number	231-765-0
Classification			
Ox. Liq. 1	H271		
Acute Tox. 4	H302		
Acute Tox. 4	H332		
Skin Corr. 1A	H314		

Butanone		%1-5	
REACH Reg. No: 01-2119457290-43-0004			
CAS Number	78-93-3	EC Number	201-159-0
Classification			
Flam. Liq. 2	H225		
Eye Irrit. 2	H319		
STOT SE 3	H336		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

Inhalation

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

Ingestion

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

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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 areas. Show this Safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.
Inhalation	Nausea, vomiting. Dizziness.
Ingestion	May cause stomach pain or vomiting. Chemical burns.
Skin contact	May cause serious chemical burns to the skin.
Eye contact	May cause severe eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.

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

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Vapours may form explosive mixtures with air. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks. Containers can burst violently or explode when heated, due to excessive pressure build-up.

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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****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

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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.

Storage Class

IIA

7.3. Specific end use(s)

Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control Parameters

Occupational exposure limits

Ingredients	CAS No.	Value	Control Parameters	Note	
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH	
		PEL	1 ppm 1,4 mg/m ³	OSHA Z-1	
		STEL	2 ppm 2,8 mg/m ³	ACGIH	
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxidibutane-2,2-diyl dihydroperoxide	1338-23-4	C	0.2 ppm	ACGIH	
			0.2 ppm 1.5 mg/m ³	NIOSH REL	
			0.7 ppm 5 mg/m ³	OSHA P0	
			0.2 ppm	CAL PEL	

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		1.5 mg/m ³			
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	ACGIH	
		MPC-TWA	200 mg/m ³	RU OEL	Vapour and/or gas
		STEL	300 ppm	ACGIH	
		MPC-STEL	400 mg/m ³	RU OEL	Vapour and/or gas
		TWA	200 ppm 590 mg/m ³	NIOSH REL OSHA Z-1 OSHA P0 CAL PEL	
		ST	300 ppm 885 mg/m ³	NIOSH REL OSHA P0 CAL PEL	
Dimethyl phthalate	131-11-3	TWA	5 mg/m ³	ACGIH NIOSH REL OSHA Z-1 OSHA P0 CAL PEL	
		MPC-TWA	0,3 mg/m ³	RU OEL	Mixture of vapour and aerosol
		MPC-Stel	1 mg/m ³	RU OEL	Mixture of vapour and aerosol

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

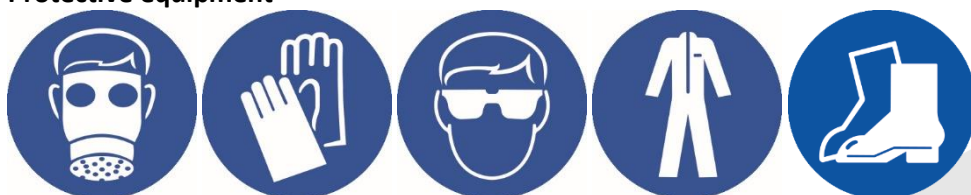
Substance name	End Use	Exposure routes	Potential health effects	Value
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Workers	Inhalation	Long-term exposure	17,62 mg/m ³
	Workers	Dermal	Long-term exposure	5 mg/kg bw/day
	General Population	Inhalation	Long-term exposure	4,35 mg/m ³
	General Population	Dermal	Long-term exposure	5 mg/kg bw/day
	General Population	Oral	Long-term exposure	5 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Water	0,014 mg/l
	Marine water	0,0014 mg/l
	Aqua Intermittent	0,14 mg/l
	Fresh water sediment	5,29 mg/kg
	Marine sediment	0,529 mg/kg
	Soil	1,05 mg/kg
	Sewage treatment plant	3 mg/l
	Secondary Poisoning	83,3 mg/kg

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

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Rubber (natural, latex). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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

Clear liquid.

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Colour	Colorless.
Odour	Characteristic.
Density	1,125 ± 0,005 gr/cm ³ @20°C
Solubility(ies)	Partially soluble in water.
Flammability (solid, gas)	Not applicable.
Viscosity	22-25 mPa.s (@20°C)
9.2. Other information	
SADT	65°C
Active Oxygen Content	8,5 - 9,0 %

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

There are no known reactivity hazards associated with this product.

10.2. Chemical stability**Stability**

Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions**Possibility of hazardous reactions**

Not available.

10.4. Conditions to avoid**Conditions to avoid**

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials**Materials to avoid**

Strong alkalis. Strong acids. Strong reducing agents. Strong oxidising agents. Some metals.

10.6. Hazardous decomposition products**Hazardous decomposition Products**Oxides of carbon. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Product Information****Toxicological information****Serious eye damage/irritation:****Skin corrosion/irritation:**

The product is not tested.

Corrosivity to eyes is assumed.

Causes burns.

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

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

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Germ cell mutagenicity:	Genotoxicity - In Vitro - In Vivo Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive Toxicity - Fertility	Suspected of damaging the unborn child.
Reproductive Toxicity – Development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure:	
STOT - Single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	
STOT - Repeated exposure	Based on available data the classification criteria are not met.
Aspiration Hazard	Based on available data the classification criteria are not met.
Inhalation	Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.
Ingestion	Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes burns. Harmful in contact with skin. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Causes burns.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	Respiratory system, lungs
Medical considerations	Skin disorders and allergies.

Toxicology Data For The Ingredients:

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

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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Acute oral toxicity	LD50: >2000 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >2000 mg/kg	Species: Rabbit
Acute inhalation toxicity	LC50 (Rat): >0,12 mg/l	Exposure time: 6h

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Butanone

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

Hydrogen Peroxide

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

Dimethyl phthalate

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

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

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

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

Butanone

Toxicity to fish	LC50, 96h: 3.220 mg/l
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1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Toxicity to fish	LC50, 96h: ≥6 mg/l
Toxicity to algae	EC50, 72h: >7,49 mg/l
Toxicity to daphnia and other aquatic invertebrates	≥1,46 mg/l, 48h
Toxicity to daphnia and other aquatic invertebrates (Chronic Toxicity)	EC10, 21d: >1,3 mg/l

Dimethyl phthalate

Toxicity to fish	LC50, 96h: 420 mg/l
Toxicity to algae	EC10, 72h: 193,09 mg/l
Toxicity to fish (Chronic Toxicity)	NOEC, 102d: 11 mg/l

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12.2. Persistence and degradability**Persistence and degradability** The product is readily biodegradable.**12.3. Bio accumulative potential****Bio accumulative 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****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****General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.**Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Environmental Manager must be informed of all major spillages.

SECTION 14: Transport information**General information**

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

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

14.2. UN proper shipping name**Proper Shipping name(ADR/RID)** ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

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Proper Shipping name (IMDG)	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)
Proper Shipping name (ICAO)	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)
Proper Shipping name (ADN)	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

14.3. Transport hazard class(es)

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

Transport labels**14.4. Packing group**

Not applicable.

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

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

EmS F-J, S-R**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 Annex II of MARPOL** Not Applicable.**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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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

IIA

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

Acute Tox. 4 - H302 Skin Corr. 1B - H314; Repr. 2 - H361d; Aquatic Chronic 3 - H412 Calculation Method. Org. Perox. D - H242: Expert Judgement.

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision comments

Added REACH Numbers.

Issued By

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

Issued Date

13.05.2015

Revision date

30.04.2019

Revision

3.0

Hazard statements in full**H225**

Highly flammable liquid and vapour.

H242

Heating may cause a fire.

H302

Harmful if swallowed.

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H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Other abbreviations

ACGIH	USA, ACGIH Thershold Limit Values (TLV)
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	USA NIOSH Recommended Exposure Limits
OSHA P0	USA OSHA – TABLE Z-1 Limits for air contaminants – 1910.1000
OSHA Z-1	Usa Occupational Exposure Limits (OSHA) – Table Z-1 Limits for air contaminants
ACGIH/TWA	8-hour, time-weighted average
ACGIH/STEL	Short-term exposure limit
ACGIH/C	Ceiling limit
CAL PEL/STEL	Short term exposure limit
CAL PEL/PEL	Permissible exposure limit
CAL PEL/C	Ceiling
NIOSH REL/TWA	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/ST	STEL-15minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL/C	Celing value not be exceeded at any time
OSHA P0/TWA	8-hour time weighted average
OSHA P0/STEL	Short-term exposure limit
OSHA P0/C	Ceiling limit
OSHA Z-1/TWA	8-hour time weighted average
RU OEL / MPC-STEL	Russia. Maximum Permissible Concentration – Short Term Exposure
RU OEL / MPC-TWA	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.