

ORGANIC PEROXIDES, INITIATORS  
PAINT DRIERS

## 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

**Supplier** 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](http://www.akpakimya.com)  
 TEL: +90 212 580 55 59  
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 E-mail: [info@akpakimya.com](mailto:info@akpakimya.com)  
**Contact person** Export Department - [export@akpakimya.com](mailto:export@akpakimya.com)

##### 1.4. Emergency telephone number

**Emergency telephone** AKPA Kimya : +90 212 580 55 59

#### 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**

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**Signal Word**

Danger

**Hazard statements**

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
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. Nonsmoking.
P220	Keep away from amine and cobalt accelerators, acids, alkalis and heavy metal compounds, 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, Isododecane, 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			
			%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. 1C	H314		
Eye Dam. 1	H318		
Acute Tox. 4	H332		
Skin Sens. 1	H317		
Aquatic Chronic 2	H411		

Isododecane			
			%20-30
<b>CAS Number</b>	<b>31807-55-3</b>	<b>EC Number</b>	<b>250-816-8</b>
<b>Classification</b>			
Flam. Liq. 3	H226		
Asp. Tox. 1	H304		

Hydrogen Peroxide Solution			
			%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 / isobutyl methyl ketone			
			%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		

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

#### SECTION 4: First aid measures

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#### 4.1. Description of first aid measures

<b>General information</b>	Effects may be delayed. Keep affected person under observation. Chemical burns must be treated by a physician.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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!
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<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.

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

<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>	Vapours may cause drowsiness and dizziness.
<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.

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**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** 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Hydrogen Peroxide Solution	WEL	1 ppm	1.4 mg/m <sup>3</sup>	2 ppm	2.8 mg/m <sup>3</sup>	
Isobutyl Methyl Ketone	WEL	50 ppm(Sk)	208 mg/m <sup>3</sup> (Sk)	100 mg/m <sup>3</sup> (Sk)	416 mg/m <sup>3</sup> (Sk)	

WEL = Workplace Exposure Limit

##### 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.

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colorless.
<b>Odour</b>	Characteristic.
<b>Relative density</b>	0,89±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)

**9.2. Other information**

<b>Active Oxygen Content</b>	10,0 - 10,5%
<b>SADT</b>	50°C

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

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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**10.2. Chemical stability**

<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**

<b>Possibility of hazardous reactions</b>	Will not polymerise.
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#### 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

##### Toxicological information

The product is not tested.

##### Serious eye damage/irritation:

Serious eye damage.

##### Skin corrosion/irritation:

Causes burns.

##### Respiratory or skin sensitisation:

##### Skin sensitisation

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:

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

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

May be fatal if swallowed and enters airways.

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<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.

**Toxicological information on ingredients.**

	<b><u>Isobutyl methyl ketone (CAS: 108-10-1)</u></b>
<b>Acute Toxic Dose 1 – LD 50</b>	2080 mg/kg (oral - rat)
<b>Acute Toxic Dose 2 – LD 50</b>	>20.000 mg/kg (dermal - rabbit)
<b>Acute Toxic Cons. – LC 50</b>	23.300 mg/m <sup>3</sup> (inh - fare)

	<b><u>2-Pentanone, 4-methyl-, peroxide / Methyl isobutyl Ketone peroxide (CAS: 37206-20-5)</u></b>
<b>Acute Toxic Dose 1 – LD 50</b>	1770 mg/kg (oral - rat)
<b>Acute Toxic Dose 2 – LD 50</b>	>2000 mg/kg (dermal - rabbit)
<b>Acute Toxic Cons. – LC 50</b>	1.5 mg/l ppm/4h (inh-rat)

**SECTION 12: Ecological Information****12.1. Toxicity**

No data available.

**Ecological information on ingredients.**

	<b><u>Isobutyl methyl ketone (CAS: 108-10-1)</u></b>
<b>LC 50, 96 Hrs, Fish mg/l</b>	505 mg/l
	<b><u>isododecane (CAS: 31807-55-3)</u></b>
<b>LC 50, 48 Hrs, Fish mg/l</b>	100 mg/l

	<b><u>2-Pentanone, 4-methyl-, peroxide / Methyl isobutyl Ketone peroxide (CAS: 37206-20-5)</u></b>
<b>LC 50, 96 Hrs, Fish mg/l</b>	48 mg/l

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#### 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 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

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



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#### 14.2. UN proper shipping name

<b>Proper Shipping name (ADR/RID)</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide)
<b>Proper Shipping name (IMDG)</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide)
<b>Proper Shipping name (ICAO)</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide)
<b>Proper Shipping name (ADN)</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide)

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

<b>ADR/RID class</b>	5.2
<b>ADR/RID label</b>	5.2
<b>IMDG class</b>	5.2
<b>ICAO class/division</b>	5.2
<b>ADN class</b>	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.

EmS	F-J, S-R
ADR transport category	2
Emergency Action Code	2W
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

**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>	Melih Babayiğit / CRAD Çevre Risk Analiz Denetim ve Eğitim Hizm. Ltd.Şti. gbf@crad.com.tr +90 216 335 46 00
<b>Issued Date</b>	01.12.2009
<b>Revised By</b>	Simge ARIK lab@akpakimya.com +90 282 361 80 99
<b>Revision date</b>	06.11.2018
<b>Revision</b>	4.0
<b>Hazard statements in full</b>	<p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H242 Heating may cause a fire.</p> <p>H271 May cause fire or explosion; strong oxidiser.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>



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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.