

FCC

IISO 9001:2015

SDS Number: SD.SP.01.08 Issue date: 22.11.2009

SAFETY DATA SHEET AKPEROX A5R

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

Revision: 6.0

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Product name AKPEROX A5R

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 againstNo 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

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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 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

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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.

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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate				
REACH Reg. No: 01-2	119451093-47-0000			
CAS Number	6846-50-0	EC Number	229-934-9	
Classification				
Repr. 2	H361d			
Aquatic Chronic 3	H412			



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Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide REACH Reg. No: 01-2119514691-43-0007				%25-40
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			

Hydrogen Peroxide S REACH Reg. No: 01-2				%1-5
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 REACH Reg. No: 01-2	2119457290-43-0004			%1-5
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	Get medical attention if any discomfort continues. Show this Safety
	Data Sheet to the medical personnel. Chemical burns must be treated

by a physician.

InhalationMove affected person to fresh air and keep warm and at rest in a

position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Get

medical attention if symptoms are severe or persist.

IngestionRinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the

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recovery position and ensure breathing can take place. Keep affected

person under observation. Get medical attention.

Skin contact It is important to remove the substance from the skin immediately.

Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated

by a physician.

Eye contact Rinse immediately with plenty of water. Do not rub eye. Remove any

contact lenses and open eyelids wide apart. Continue to rinse for at

least 15 minutes and get medical attention.

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 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: Corrosive to

the respiratory tract. Symptoms following overexposure may include

the following: Severe irritation of nose and throat.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Symptoms following overexposure may include the following: Severe

stomach pain. Nausea, vomiting.

Skin contact Causes severe burns. Symptoms following overexposure may include

the following: Pain or irritation. Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may

include the following: Pain. Profuse watering of the eyes. Redness.

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 MediaDo not use water jet as an extinguisher, as this will spread the fire.

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5.2. Special hazards arising from the substance or mixture

Specific hazards

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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.

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.

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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) 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	Note
			Parameters	
		TWA	1 ppm	ACGIH
Hydrogen peroxide	7722-84-1	PEL	1 ppm 1,4 mg/m ³	OSHA Z-1
		STEL	2 ppm 2,8 mg/m ³	ACGIH



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			0.2 ppm	ACGIH	
Reaction mass of butane-2,2-diyl			0.2 ppm 1.5 mg/m ³	NIOSH REL	
dihydroperoxide and dioxydibutane-2,2-diyl	1338-23-4	С	0.7 ppm 5 mg/m ³	OSHA PO	
dihydroperoxide			0.2 ppm 1.5 mg/m ³	CAL PEL	
		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
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm 590 mg/m ³	NIOSH REL OSHA Z-1 OSHA PO CAL PEL	
		ST	300 ppm 885 mg/m ³	NIOSH REL OSHA PO CAL PEL	

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

Substance name	End Use	Exposure routes	Potential health effects	Value
	Workers	Inhalation	Long-term exposure	17,62 mg/m ³
1-isopropyl-2,2-	Workers	Dermal	Long-term exposure	5 mg/kg bw/day
dimethyltrimethylene	General Population	Inhalation	Long-term exposure	4,35 mg/m ³
diisobutyrate	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
	Water	0,014 mg/l
	Marine water	0,0014 mg/l
	Aqua Intermittent	0,14 mg/l
1-isopropyl-2,2-	Fresh water sediment	5,29 mg/kg
dimethyltrimethylene diisobutyrate	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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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

Clear liquid. **Appearance** Colour Colorless. Odour Characteristic.



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Density $1 \pm 0,005 \text{ gr/cm}^3 @ 20^{\circ}\text{C}$ **Solubility(ies)** Slightly soluble in water.

Flammability (solid, gas) Not applicable.

Viscosity, dynamic No data available.

9.2. Other information

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SADT 60°C

Active Oxygen Content 8,8 - 8,99 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this

product.

10.2. Chemical 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:The product is not tested.

Corrosivity to eyes is assumed.

Skin corrosion/irritation: Causes burns.

Respiratory or skin sensitisation:

Respiratory sensitisationBased on available data the classification criteria are not met. **Skin sensitisation**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

Reproductive Toxicity -

Development

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Suspected of damaging the unborn child.

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 Corrosive to the respiratory tract. Symptoms following overexposure

may include the following: Severe irritation of nose and throat.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Symptoms following overexposure may include the following: Severe

stomach pain. Nausea, vomiting.

Skin contact Causes severe burns. Symptoms following overexposure may include

the following: Pain or irritation. Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may

include the following: Pain. Profuse watering of the eyes. Redness.

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

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

Toxicity to algae

Toxicity to bacteria

LC50, 96h: 44,2 mg/l

ErC50, 72h: 5,6 mg/l

EC10, 0,5h: 5,6 mg/l

Toxicity to daphnia and other 39 mg/l, 48h

aquatic invertebrates

Butanone

Toxicity to fish LC50, 96h: 3.220 mg/l

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Toxicity to fish LC50, 96h: ≥6 mg/l **Toxicity to algae** LC50, 72h: >7,49 mg/l

Toxicity to daphnia and other ≥1,46 mg/l, 48h

aquatic invertebrates

Toxicity to daphnia and other EC10, 21d: >1,3 mg/l

aquatic invertebrates (Chronic

Toxicity)

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bio accumulative potential

Bio accumulative potentialNo data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is partly miscible with water and may spread in the aquatic

environment.



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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)

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

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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

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 toNot Applicable.

Annex II of MARPOL

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Health and Safety at Work etc. Act 1974 (as amended). The Chemicals

(Hazard Information and Packaging for Supply) Regulations 2009 (SI

2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG

2009"]. EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18 December 2006 concerning the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH) (as amended).

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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

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This SDS is prepared based on the information received from the

product owner.

Classification procedures according

to Regulation (EC) 1272/2008

Skin Corr. 1B - H314; Acute Tox. 4 H302; 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

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Hazard statements in full

H225 Highly flammable liquid and vapour.

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

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.

Other abbreviations

ACGIH Thershold Limit Values (TLV)

CAL PEL California permissible exposure limits for chemical contaminants (Title

8, Article 107)

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NIOSH REL USA NIOSH Recommended Exposure Limits

OSHA PO 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

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 PO/TWA 8-hour time weighted average **OSHA PO/STEL** Short-term exposure limit

OSHA PO/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.