

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ARENAS®-oxydes**

Print date: 04.12.2012

Product code: j6531\_sd

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ARENAS®-oxydes

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

Liquid disinfection and bleaching component for the preparation of cleaning-textiles

**1.3. Details of the supplier of the safety data sheet**

Company name: JOHANNES KIEHL KG  
Street: Robert-Bosch-Str. 9  
Place: D-85235 Odelzhausen  
Post-office box: 15  
D-85233 Odelzhausen  
Telephone: +49 8134 9305.0      Telefax: +49 8134 6466  
e-mail: joachim.dr-gross@kiehl-group.com  
Contact person: Dr. Joachim Gross      Telephone: +49 8134 9305-36  
Responsible Department: Notrufnummer für deutsch- und englischsprachige Länder: +49/89/19240  
Nationale Notrufnummer für die Schweiz (Tox-Zentrum Zürich): 145  
Numéro d'urgence France: INRS: +33 (0) 1 45 42 59 59  
Numero d' emergenza Italia: Centro Antiveleni - 20162 Milano: 02/66101029  
ETTSZ /Egészségügyi Toxikológiai Tájékoztató Szolgálat/, 1096 Budapest,  
Nagyvárad tér 2. Ügyeleti telefonszám: 476-64-00, 476-64-64  
Eesti: Häirekeskuse number: 112 / Mürgistusteabekeskuse number: 16662  
Romania: Institutul National de Sanatate Publica: Tel. de urgenta: 021/3183606  
Emergency telephone number for all other countries: +49/8134/9305-36  
+49/89/19240 (germanophone and anglophone)

**1.4. Emergency telephone number:**

J.P. Kiehl Ges.m.b.H.	Troststr. 50/1 Top 305;	A-1100 Wien	Tel. +43 (0) 1 / 604 99 93
KIEHL FRANCE S.A.R.L.	1, Rue de l'industrie - B.P. 54;	F-67172 Brumath Cedex	Tél. +33 (0) 3.88.59.52.25
KIEHL Italia s.r.l.	Via Michelangelo 29;	I-16036 Avegno (GE)	Tel. +39 / 0185 730 008
KIEHL Schweiz AG	St. Dionys-Str. 33;	CH-8645 Jona	Tel. +41 (0) 55 / 254 74 74
Johannes Kiehl KG	Ganz Ábrahám ucta 4/12,	H-2142 Nagytarcsa	Tel. +36 (0) 1 / 348-08 41
KIEHL Middle East L.L.C.	P.O. Box 11 40 19	Abu Dhabi, U.A.E.	Tel. +971 2 550 33 96

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Indications of danger: Oxidizing, Corrosive

R phrases:

Contact with combustible material may cause fire.

Harmful by inhalation, in contact with skin and if swallowed.

Causes burns.

Irritating to respiratory system.

C - Corrosive

**2.2. Label elements**

Danger symbols: C - Corrosive; O - Oxidizing

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C - Corrosive



O - Oxidizing

#### Hazardous components which must be listed on the label

hydrogen peroxide solution

##### R phrases

- 08 Contact with combustible material may cause fire.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 34 Causes burns.
- 37 Irritating to respiratory system.

##### S phrases

- 17 Keep away from combustible material.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 03/07 Keep container tightly closed in a cool place.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

### SECTION 3: Composition/information on ingredients

(according to 648/2004/CE)

#### 3.2. Mixtures

##### Chemical characterization

organic acids, Peroxides

##### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-765-0	hydrogen peroxide solution ... %	25 - 30 %
7722-84-1	O - Oxidizing, C - Corrosive, Xn - Harmful R5-8-35-20/22	
008-003-00-9	Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H271 H332 H302 H314	
200-580-7	acetic acid ... %	5 - 10 %
64-19-7	C - Corrosive R10-35	
607-002-00-6	Flam. Liq. 3, Skin Corr. 1A; H226 H314	
201-186-8	peracetic acid ... %	1 - 5 %
79-21-0	O - Oxidizing, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R7-10-20/21/22-35-50	
607-094-00-8	Flam. Liq. 3, Org. Perox. D, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H226 H242 H332 H312 H302 H314 H400	

Full text of R and H phrases: see Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Avoid contact with skin and eyes.

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**After inhalation**

Victim to lie down in the recovery position, cover and keep him warm.

**After contact with skin**

Wash off immediately with soap and plenty of water. Take off all contaminated clothing immediately.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

Consult a physician.

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

This information is not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Any extinguishing means and measures are acceptable.

**5.2. Special hazards arising from the substance or mixture**

This information is not available.

**5.3. Advice for firefighters**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing.

**6.2. Environmental precautions**

Do not flush into surface water.

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

Any leaked product must be rinsed off with plenty of water.

**6.4. Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid contact with skin and eyes.

Provide appropriate exhaust ventilation at machinery.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

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

**Requirements for storage rooms and vessels**

Store in original container. Keep in a dry, cool and well-ventilated place.

Store in a place accessible by authorized persons only.

**Advice on storage compatibility**

Keep away from food and drink.

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Keep away from combustible material.

#### Further information on storage conditions

Keep container tightly closed.

Never return unused material to storage receptacle.

#### 7.3. Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	EU
		15	37		STEL (15 min)	EU
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Occupational exposure controls

Not required.

#### Protective and hygiene measures

General industrial hygiene practice.

#### Hand protection

Protective gloves

Recommendation: Nature latex gloves with parts of polychloropren latex and a coating thickness of 0.6 mm which protect at least 8 hours (corresponds to the permeability level 6 of the European norm DIN/EN 374) and provide a resistance to swelling of < 15%.

#### Eye protection

Safety glasses with side-shields

#### Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	colourless
Odour:	pungent

pH-Value (at 20 °C):

**Test method**  
0,6 K-QP1012C

#### Changes in the physical state

Melting point:	<-8 °C
Boiling point:	>60 °C
Sublimation point:	not applicable
Softening point:	not applicable
Flash point:	>96 °C

#### Flammability

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Solid: not applicable

Gas: not applicable

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: 430 °C

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Vapour pressure: 27 hPa

Density (at 20 °C): 1,12 g/cm<sup>3</sup> K-QP1012EWater solubility:  
(at 20 °C) completely miscible**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

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

Oxidizer. Contact with other material may cause fire.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Decomposes by reaction with alkaline solutions.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Do not expose to temperatures above 35 °C.

**10.5. Incompatible materials**

alkalis, Reducing agents, Impurities, Metals

**10.6. Hazardous decomposition products**

Steam, Oxygen

**Further information**

Do not mix with other detergents or chemicals.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7722-84-1	hydrogen peroxide solution ... %				
	oral	LD50	418 - 445 mg/kg	Rat	
	dermal	LD50	3000 mg/kg	Rat	GESTIS
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
64-19-7	acetic acid ... %				
	oral	LD50	3310 mg/kg	Rat	GESTIS
79-21-0	peracetic acid ... %				
	oral	ATE	500 mg/kg		
	dermal	ATE	1100 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

**Additional information on tests**

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

**Further information**

The product causes burns of eyes, skin and mucous membranes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

No data is available on the product itself.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	h	Species
7722-84-1	hydrogen peroxide solution ... %				
	Acute fish toxicity	LC50	16,4 mg/l	96	Pimephales promelas
	Acute algae toxicity	ErC50	0,88 mg/l	72	Chlorella vulgaris
64-19-7	acetic acid ... %				
	Acute crustacea toxicity	EC50	65 mg/l	48	Daphnia magna
					Janssen et al

**12.2. Persistence and degradability**

This information is not available.

**12.3. Bioaccumulative potential**

This information is not available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
64-19-7	acetic acid ... %	-0,17

**12.4. Mobility in soil**

This information is not available.

**12.5. Results of PBT and vPvB assessment**

This information is not available.

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**12.6. Other adverse effects**

This information is not available.

**Further information**

The organic ingredients can be biodegraded in a sewage plant after neutralization. Chemical Oxygen Demand (COD) 251 mg O<sub>2</sub>/g

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not dispose of waste into sewer.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Waste disposal number of used product**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Clean container with water.

Do not dispose of together with household waste.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

3149

**14.2. UN proper shipping name:**

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, with acid(s), water and not more than 5 % peroxyacetic acid, STABILIZED

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

5.1

**14.4. Packing group:**

II

Hazard label:

5.1+8



Classification code:

OC1

Special Provisions:

196 553

Limited quantity:

LQ10

Transport category:

2

Hazard No:

58

Tunnel restriction code:

E

**Other applicable information (land transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:**

3149

**14.2. UN proper shipping name:**

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, with acid(s), water and not more than 5 % peroxyacetic acid, STABILIZED

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

5.1

**14.4. Packing group:**

II

Hazard label:

5.1+8

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Special Provisions: 196  
Limited quantity: 1 L  
EmS: F-H, S-Q  
Segregation group: Peroxides

#### Other applicable information (marine transport)

E2

#### 14.5. Environmental hazards

Dangerous for the environment: no

#### 14.6. Special precautions for user

Not required

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

### SECTION 15: Regulatory information

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

##### National regulatory information

Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Full text of R phrases referred to under Sections 2 and 3

- 05 Heating may cause an explosion.
- 07 May cause fire.
- 08 Contact with combustible material may cause fire.
- 10 Flammable.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 20/22 Harmful by inhalation and if swallowed.
- 34 Causes burns.
- 35 Causes severe burns.
- 37 Irritating to respiratory system.
- 50 Very toxic to aquatic organisms.

#### Full text of H statements referred to under Sections 2 and 3

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.

#### Further Information

This data sheet contains changes from the previous version in section(s): 2 / 10

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*