

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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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 ³	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/cm³ 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 mg/kg	418 - 445	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	Source
7722-84-1	hydrogen peroxide solution ... %					
	Acute fish toxicity	LC50	16,4 mg/l	96	Pimephales promelas	IUCLID
	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 O₂/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.)