

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 2 of 11

Signal word: Danger

Pictograms:



Hazard statements

H242 Heating may cause a fire.
H290 May be corrosive to metals.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H335 May cause respiratory irritation.
H314 Causes severe skin burns and eye damage.
H410 Very toxic 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.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

according to 648/2004/CE: organic acids, Peroxides

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7722-84-1	Hydrogen peroxide solution			25 - < 30 %
	231-765-0	008-003-00-9	01-2119485845-22	
	Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H271 H332 H302 H314 H318 H335 H412			
64-19-7	acetic acid			5 - < 10 %
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A, Eye Dam. 1; H226 H314 H318			
79-21-0	Peracetic acid ... %			1 - < 5 %
	201-186-8	607-094-00-8	01-2119531330-56	
	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 H and EUH statements: see section 16.

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 3 of 11

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7722-84-1	231-765-0	Hydrogen peroxide solution	25 - < 30 %
		inhalation: LC50 = >0,17 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = 415 mg/kg Ox. Liq. 1; H271: >= 70 - 100 Ox. Liq. 2; H272: >= 50 - < 70 Skin Corr. 1A; H314: >= 70 - 100 Skin Corr. 1B; H314: >= 50 - < 70 Skin Irrit. 2; H315: >= 35 - < 50 Eye Dam. 1; H318: >= 8 - < 50 Eye Irrit. 2; H319: >= 5 - < 8 STOT SE 3; H335: >= 35 - 100	
64-19-7	200-580-7	acetic acid	5 - < 10 %
		oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	
79-21-0	201-186-8	Peracetic acid ... %	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Avoid contact with skin and eyes.

After inhalation

Take the victim into fresh air.

If unconscious place in recovery position and seek medical advice.

No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

Call a physician immediately.

After contact with skin

Flush with water. Do NOT use solvents or thinners.

Take off all contaminated clothing immediately.

Call a physician immediately.

After contact with eyes

Remove contact lenses, if present and easy to do.

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

Call a physician immediately.

After ingestion

Rinse mouth.

Immediately give large quantities of water to drink.

Never give anything by mouth to an unconscious person.

Prevent vomiting if possible.

Call a physician immediately.

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.

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 4 of 11

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

General advice

Avoid contact with skin, eyes and clothing.
Emergency measures on accidental release:
Respirator with combination filter for vapour/particulate (EN 141).
A2B2E2K1P2 (Draeger)
OV/AG (3M)
ABEK2P3 (3M)

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Use personal protection equipment.

6.2. Environmental precautions

Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).
Clean contaminated articles and floor according to the environmental legislation.

Other information

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.
Ensure adequate ventilation, especially in confined areas.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Advice on general occupational hygiene

General industrial hygiene practice.

Further information on handling

Do not keep container sealed.
Avoid formation of aerosol.

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.

Hints on joint storage

Keep away from food and drink.

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 5 of 11

Keep away from combustible material.
Incompatible products: See also section 10

Further information on storage conditions

Keep container tightly closed.
Never return unused material to storage receptacle.
Take precautionary measures against static discharges.

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)	WEL
		20	50		STEL (15 min)	WEL
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Not required.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166

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%.

Skin protection

Wear suitable protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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

Melting point/freezing point:

approx. -28 °C

Boiling point or initial boiling point and

not applicable

boiling range:

Flammability

Test method

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 6 of 11

Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	395 °C
Decomposition temperature:	> 60 °C
pH-Value (at 20 °C):	approx. 0,5 K-QP1012C
Viscosity / kinematic: (at 20 °C)	1,19 mm ² /s DIN 51562
Water solubility: (at 20 °C)	completely miscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	27 hPa
Density (at 20 °C):	1,12 g/cm ³ K-QP1012E
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

no data available

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

Not relevant

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Sublimation point:

not applicable

Softening point:

not applicable

Pour point:

not applicable

Viscosity / dynamic:

not determined

Flow time:

not determined

Further Information

Oxidizer

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

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 7 of 11

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 hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7722-84-1	Hydrogen peroxide solution				
	oral	LD50 mg/kg	415	rat	
	dermal	LD50 mg/kg	>5000	rabbit	
	inhalation (4 h) vapour	LC50 mg/l	>0,17	rat	
	inhalation dust/mist	ATE	1,5 mg/l		
64-19-7	acetic acid				
	oral	LD50 mg/kg	3310	Rat	GESTIS
79-21-0	Peracetic acid ... %				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Peracetic acid ... %)

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.

11.2. Information on other hazards

Endocrine disrupting properties

This information is not available.

Further information

Health injuries are not known or expected under normal use.

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 8 of 11

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-19-7	acetic acid					
	Acute crustacea toxicity	EC50	65 mg/l	48 h	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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. 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

Disposal recommendations

Do not dispose of waste into sewer.

List of Wastes Code - 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

List of Wastes Code - 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. Return cleaned containers to the company for recycling.
Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3149

14.2. UN proper shipping name:

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 9 of 11

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: 1 L

Excepted quantity: E2

Transport category: 2

Hazard No: 58

Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number or ID number: UN 3149

14.2. UN proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es): 5.1

14.4. Packing group: II

Hazard label: 5.1+8



Special Provisions: 196

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-H, S-Q

Segregation group: Peroxides

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



14.6. Special precautions for user

Not required

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Additional information

This product is subject to Regulation (EU) 2019/1148.

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 10 of 11

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3 / 6 / 7 / 8 / 12

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

Page 11 of 11

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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