



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : ASEPTANIOS AD
Product code : 2122000.

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

Airborne disinfection
For further information on product indication, please see the label.

1.3. Details of the supplier of the safety data sheet

Registered company name : Laboratoires ANIOS.
Address : PAVE DU MOULIN ,59260.LILLE - HELLEMES.FRANCE.
Telephone : + 33 (0)3 20 67 67 67. Fax : + 33 (0)3 20 67 67 68.
e.mail : fds@anios.com
www.anios.com

1.4. Emergency telephone number : + 33(0)1 45 42 59 59.

Association/Organisation : INRS.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Oxidising liquid, Category 2 (Ox. Liq. 2, H272).
Organic peroxide, Type G (Org. Perox. G).
Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).
Skin corrosion, Category 1A (Skin Corr. 1A, H314).
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS03

Signal Word :

DANGER

Product identifiers :

607-002-00-6

ACETIC ACID

Hazard statements :

H272

May intensify fire; oxidiser.

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220

Keep away from oxidisable substances.

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 In case of intervention during atomisation or contact time as well as for recovery, wear suitable respiratory equipment.

Precautionary statements - Response :

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304 + P340 IF INHALED: Remove person to fresh air and keep 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.
 P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary statements - Disposal :

P501 Dispose of unused product and its container as hazardous waste.

Other information :

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

Risk of decomposition if in contact with decomposition catalysts, alkalis, reducing agents, flammable products.

The product is an oxidizing reactive agent. Risk of decomposition when heated.

Caution! Due to use of a degasser cap, it is imperative that packages are stored upright (cap on top), in order to avoid excessive pressure (risk of leak and/or swelling)

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Title for H and EUH statements: see § 16.

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: 607-002-00-6 CAS: 64-19-7 EC: 200-580-7 REACH: 01-2119475328-30	GHS02, GHS05 Dgr Flam. Liq. 3, H226 Skin Corr. 1A, H314	B [1]	2.5 \leq x % < 10
ACETIC ACID CAS: 7722-84-1 EC: 231-765-0 REACH: 01-2119485845-22	GHS07, GHS05, GHS03 Dgr Ox. Liq. 1, H271 Acute Tox. 4, H302 Skin Corr. 1A, H314	B [1]	2.5 \leq x % < 10
HYDROGEN PEROXIDE SOLUTION ... %	Acute Tox. 4, H332 Aquatic Chronic 3, H412		
CAS: 79-21-0 EC: 201-186-8 REACH: 01-2119531330-56	GHS07, GHS05, GHS09, GHS02 Dgr Flam. Liq. 3, H226 Self-react. D, H242 Org. Perox. D, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 10	[1]	0 \leq x % < 2.5
PERACETIC ACID			

(Full text of H-phrases: see section 16)

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.
Reminder: any unconscious person must be placed in the lateral recovery position.

4.1. Description of first aid measures

In the event of exposure by inhalation :

Move the person away from the place of exposure and take him/her outside.

In the event of splashes or contact with eyes :

If applicable, remove contact lenses.
Wash thoroughly with soft clean water for 15 minutes, holding the eyelids open.
Take care not to introduce rinsing water in the undamaged eye.
Additional treatment to be provided immediately in an eye clinic or by an ophthalmologist. Show this container or label.
Continue rinsing until medical advice is obtained.

In the event of splashes or contact with skin :

If possible, wear rubber gloves when giving first aid.
Remove all contaminated or stained clothing immediately. Do not use them again until they have been decontaminated.
Rinse thoroughly with water during 15 minutes.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Rinse out the mouth, do not allow to drink, do not induce vomiting. Calm the person down and transfer immediately to hospital or doctor. Show the label to the doctor.

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

Cf. § 11

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

Refer to the recommendation of the doctor.

SECTION 5 : FIREFIGHTING MEASURES

Move oxidising products away from the fire.
Move any flammable materials away from the fire.
Spray water to cool down surfaces exposed to fire and to protect the personnel.
In case of a fire, if it is possible without risk, remove all containers exposed to the fire and store them in a safe place, away from any source of heat.
In case of peripheral fire, there is a risk of decomposition with oxygen release which would favour combustion.
Risk of over-pressure and bursting in the event of decomposition in closed containers.

5.1. Extinguishing media

Suitable methods of extinction

Water spray, foam, dry powder and carbon dioxide.

Unsuitable methods of extinction

Organic compounds.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.

5.3. Advice for firefighters

Use autonomous insulating breathing apparatus and a full protective suit.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.
Keep away any unprotected person.
Move all flammable sources out of danger and keep them away from the scene.
Eliminate any possible source of ignition and ventilate the premises.
Avoid all contact with skin or eyes.

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
DO NOT hermetically seal any defective containers, including drums (risk of bursting due to the decomposition of the product).
Do not get rid in natural spaces (waterways, ground and vegetations...)

6.3. Methods and material for containment and cleaning up

Absorb any spilled product with absorbent non-combustible materials, and sweep away or remove with a shovel. Put any waste in drums for disposal. Do not mix with any other waste. Wash the contaminated surface thoroughly with water.

Do not collect the product for re-use.

DO NOT use textiles, sawdust or combustible materials

6.4. Reference to other sections

Disposal considerations: see section 13.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid all contact with skin, eyes and clothes.

Handle in accordance with user instructions on label

Do not hermetically seal the container.

Risk of overpressure and bursting in the event of decomposition in closed containers and in pipes.

Do not breathe in the aerosols and spray mists.

Spray the product:

- not to be used in the presence of humans

- keep away from foodstuffs

Before spraying the product, the authorised user must:

-ensure all electrical appliances in the room are unplugged, and for use in Europe, are rated IP55 (minimum protection)

-check there are no hot surfaces or hot areas or naked flames in the room

-make sure all fuel (gas) and oxidant (oxygen) taps are turned off

-ensure no other chemical products are present, especially flammable or combustible or toxic products

-check there is no electrical equipment within a safety distance of 3.50 metres from the spray nozzle

Fire prevention :

Keep away from sources of ignition - no smoking.

Keep away from flammable materials

Do not use tools which may cause sparks. No smoking.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Safety shower, eye bath and water point nearby.

Change any contaminated or wet work clothes immediately.

Ensure room is well ventilated.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

Keep in the original container only, in a cool and well-ventilated place, out of the light and away from combustible materials and reducing agents (amines), acids, bases, heavy metal compounds (accelerators, siccative agents, metallic salts)

Recommended storage temperature: from +5°C to +25°C.

Do not hermetically seal the container

Always transport and store the containers upright.

Risk of overpressure and bursting in the event of decomposition in closed containers and in pipes.

Do not use after the expiry date mentioned on the packaging.

Keep out of the reach of children

Store on an acid-resistant floor.

Keep away from incompatible materials (refer to § 10)

Splash pan for high quantities' storage

7.3. Specific end use(s)

For professional use only

Refer to paragraph 1 for product indication

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this chapter refers to the product specifically described in this document. If the product is handled and/or exposed simultaneously with other chemical agents, these must be taken into consideration when choosing personal safety equipment.

The Exposure Threshold Limit Value and the Average Exposure Value given below are quoted by the CAS number of the substance. Paragraph 3 details the chemical name corresponding to the CAS number.

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
64-19-7		10 ppm 25 mg/m ³		2(I)

- Belgium (Arrêté du 09/03/2014, 2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-19-7	10 ppm 25 mg/m ³	15 ppm 38 mg/m ³			
7722-84-1	1 ppm 1,4 mg/m ³				

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-19-7	-	-	10	25	-	-
7722-84-1	1	1,5	-	-	-	-

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2017) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-19-7	10 ppm 25 mg/m ³	15 ppm 37 mg/m ³		VLI	
7722-84-1	1 ppm 1,4 mg/m ³				

- Poland (2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-19-7	25 mg/m ³	50 mg/m ³			
7722-84-1	0,4 mg/m ³	0,8 mg/m ³			

- Czech Republic (Regulation No. 361/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-19-7	25 mg/m ³	35 mg/m ³		I	
7722-84-1	1 mg/m ³	2 mg/m ³		I	
79-21-0	0,6 mg/m ³	1,2 mg/m ³		I	

- Slovakia (Règlement 300/2007, 471/2011 23/11/2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-19-7	10 ppm 25 mg/m ³				
7722-84-1	1 ppm 1,4 mg/m ³	2 ppm 2,8 mg/m ³			

- Switzerland (SUVAPRO 2017) :

CAS	VME	VLE	Valeur plafond	Notations
64-19-7	10 ppm 25 mg/m ³	20 ppm 50 mg/m ³		SSC
7722-84-1	0,5 ppm 0,71 mg/m ³	0,5 ppm 0,71 mg/m ³		SSC
79-21-0				

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
64-19-7	25	10	50	20	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7722-84-1	1 ppm 1,4 mg/m ³	2 ppm 2,8 mg/m ³			

8.2. Exposure controls**Appropriate engineering controls**

Ensure the rooms are well-ventilated. Atmospheric concentrations at the workplace must not exceed the limit values given for normal conditions of use.

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling, wear safety goggles with protective sides accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eye washes in workshops.

If necessary, the nearest water supply

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Butyl or nitrile gloves are recommended.

Gloves must be replaced immediately if they show signs of wear and tear.

- Body protection

Avoid skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Change wet and dirty work clothes immediately.

- Respiratory protection

For recovery after contact time, and in case of intervention during aerosolisation or during contact time, wear suitable breathing apparatus.

Use Type B1P1 or B2P2 filters.

Renew the air of the treated room before recovery.

Air out 9 times

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.
Colour:	colourless
Odour:	weak, typical of acetic acid

Important health, safety and environmental information

pH :	Not stated. Strongly acidic.
Boiling point/boiling range :	Not specified.
Flash Point Interval :	60°C < FP <= 93°C
Vapour pressure (50°C) :	Not relevant.
Density :	+/- 1.0
Water solubility :	Soluble.
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.

9.2. Other information

Oxidizing agent.

Oxidizing substance

pH pure product:	< 2
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SECTION 10 : STABILITY AND REACTIVITY

The product is a reactive oxidizing agent. Risk of decomposition if heated.

10.1. Reactivity

No hazardous reaction if the instructions/indications for storage and handling are respected.

Exothermic reaction with bases.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Cf. § 10.1, 10.2 and 10.5

10.4. Conditions to avoid

Avoid :

- frost

Do not mix with other products.

Do not mix with chlorinated products.

Decomposition by heat and light.

Avoid exposure to light and sun

10.5. Incompatible materials

Strong bases.
Chlorinated products.
Brass, copper, iron, zinc
Decomposition catalysts, alkalis, reducing agents, iron, galvanized steels
No known incompatibility with found materials for the recommended uses.
Refer to the scientific folder*: product/material compatibility table
* available on request

10.6. Hazardous decomposition products

At high temperatures, dangerous decomposition products may be produced, such as fumes, carbon dioxide and carbon monoxide, nitrogen oxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Substances

Not specified

11.1.2. Mixture

The toxicological data of the mixture (resulting from studies or in accordance with conventional methods) are outlined below.

Acute toxicity :

Acute toxicity estimate (ATE)* :

Oral ATE : > 2000 mg/kg

* according to the method of calculation describe in the CLP regulation (Classification, Labelling, Packaging) Part 3 Chapter 3.1 based on the data of the different components present in the product.

If swallowed: burns to upper digestive and respiratory tract, abdominal pain, vomiting blood, serious lesions to mucous membranes and risk of perforation.

Possibility of formation of a toxic pulmonary oedema in the event of prolonged respiration of the product.

Risk of air embolism.

Skin corrosion/skin irritation :

Severe skin irritation, burns, redness, dermatitis, necrosis of tissue.

Serious damage to eyes/eye irritation :

Serious eyes damage.

Burns, characterized by discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

Respiratory or skin sensitisation :

Product not classified in this hazard category.

Germ cell mutagenicity :

Product not classified in this hazard category.

Carcinogenicity :

Product not classified in this hazard category.

Reproductive toxicant :

Product not classified in this hazard category.

Specific target organ systemic toxicity - single exposure :

Product not classified in this hazard category.

Specific target organ systemic toxicity - repeated exposure :

Product not classified in this hazard category.

Aspiration hazard :

Product not classified in this hazard category.

SECTION 12 : ECOLOGICAL INFORMATION

Following information is based on data from the compounds.

Avoid any product release into waterways.

12.1. Toxicity

12.1.1. Substances

Not specified

12.1.2. Mixtures

Chronic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

This product is degradable in water - decomposition in acetic acid, water and oxygen.

Acetic acid is easily biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

Do not pour into waterways.

The packages must not be reused.

13.1. Waste treatment methods**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

18 01 06 * chemicals consisting of or containing dangerous substances

20 01 14 * acids

For information :

The following waste codes are given as guidelines only.

The waste code must be determined by the user, according to the application of the product.

18 = Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)

20 = Municipal wastes and similar commercial, industrial and institutional wastes including separately collected fractions

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

3149

14.2. UN proper shipping name

UN3149=HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

14.3. Transport hazard class(es)

- Classification :



5.1+8

14.4. Packing group

II

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	5.1	OC1	II	5.1+8	58	1 L	196 553	E2	2	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	5.1	8	II	1 L	F-H,S-Q	196	E2			

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	5.1	8	II	550	1 L	554	5 L	A96	E2
	5.1	8	II	Y540	0.5 L	-	-	A96	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

Regulation (EC) No. 1272/2008 and its amendments.

15.2. Chemical safety assessment

Information from the chemical safety assessment of substances present in the product is included in the appropriate sections of this safety data sheet, whenever necessary.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture.

It is recommended that the information contained in this safety data sheet is provided to the users, if necessary in an appropriate form.

This information relates to the specifically designated product and may not be valid in combination with any another product. The product must not be used for applications other than those specified in heading 1 without having first obtained written handling instructions.

UPDATES SINCE PREVIOUS VERSION

- § 2
- § 3
- § 4
- § 8
- § 11
- § 12
- § 14

Wording of the phrases mentioned in section 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.
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.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

GHS03 : Flame over circle

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.