



SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: ASEPTANIOS TERMINAL SPORE

Product code: 117000

Company/undertaking identification:

Registered company name: Laboratoires ANIOS.

Address: Pavé du Moulin.59260.LILLE - HELLEMES.FRANCE.

Telephone: + 33 (0)3 20 67 67 67. Fax:+ 33 (0)3 20 67 67 68. Telex:.

e:mail : fds@anios.com

www.anios.com

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

Association/Organisation: INRS.

Use of the substance/preparation:

Airborne disinfection of surfaces

2 - HAZARDS IDENTIFICATION

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site

Possibility of serious lesions to the eyes.

The preparation causes sensitisation of the skin and respiratory organs. It also irritates the skin and prolonged contact may aggravate this effect.

Possibility of category three carcinogenic effects.

Possibility of noxious effects with symptoms of slight poisoning by inhalation, contact with the skin and swallowing.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:INDEX 603-001-00-X CAS 67-56-1 CE 200-659-6 METHANOL | Concentration $\geq 0.00\%$ and $< 2.50\%$. Symbol: T F R: 11-23/24/25-39/23/24/25INDEX 605-001-00-5 CAS 50-00-0 CE 200-001-8 FORMALDEHYDE | Concentration $\geq 2.50\%$ and $< 10.00\%$. Symbol: T R: 23/24/25-34-40.C3-43INDEX 605-022-00-X CAS 111-30-8 CE 203-856-5 GLUTARALDEHYDE | Concentration $\geq 0.00\%$ and $< 2.50\%$. Symbol: T N R: 34-42/43-50-23/25**Substances present at a concentration below the minimum danger threshold:**

No known substance in this category present.

Other substances with occupational exposure limits:INDEX 603-002-00-5 CAS 64-17-5 CE 200-578-6 ETHANOL | Concentration $\geq 2.50\%$ and $< 10.00\%$. Symbol: F R: 11

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

Reminder: any unconscious person must be placed in the lateral recovery position.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not give the patient anything orally.

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.
- Continue rinsing until medical advice is obtained.

In the event of splashes or contact with skin:

- Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
- 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 induce vomiting, keep the person calm and take him/her to a clinic or a doctor's. Show the doctor the label.

5 - FIRE-FIGHTING MEASURES

The product itself does not burn.

Suitable extinguishing media:

Any extinguishing agents are authorized: foam, sand, carbon dioxide, water, powder.

Special protective equipment for fire-fighters:

Use autonomous insulating breathing apparatus and a full protective suit.

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

- Avoid inhaling the vapors.
- Avoid any contact with the skin and eyes.
- Consult the safety measures listed under headings 7 and 8.

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.
- Prevent any material from entering drains or waterways.
- Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
- If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for 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.

7 - HANDLING AND STORAGE

- The regulations relating to storage premises apply to workshops where the product is handled.
- Anyone with a history of asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations
- Anyone with a history of skin sensitisation must on no account handle such products

Handling:

- Handle in well-ventilated areas.
- Product for external use - do not swallow.
- Avoid all contact with skin, eyes and clothes.

Fire prevention:

- Prevent access by unauthorised personnel.

Recommended equipment and procedures:

- For personal safety, see §8.
- Observe precautions stated on label and also industrial safety regulations
- Avoid inhaling vapors.
- Product must not come into contact with the eyes

Storage:

- Keep the container tightly closed in a dry, well-ventilated place
- Keep away from food and drink, including those for animals.
- Store between + 5 °C and + 35 °C in a dry, well ventilated place
- Store ONLY in the original package.
- Do not use after the expiry date mentioned on the packaging.

Keep out of the reach of children

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation, asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations

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.

Technical measures:

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

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
111-30-8	0.1	0.4	0.2	0.8	-	65.66
50-00-0	0.5	-	1	-	C3	43
64-17-5	1000	1900	5000	9500	-	84
67-56-1	200	260	1000	1300	-	84
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
111-30-8	I	0.1	0.42	C.Sens		
50-00-0	I	0.5	0.62	3. C. Sens		
64-17-5	II.1	500	960	5. C		
67-56-1	II.1	200	270	C.*		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
111-30-8	0.05	-	-	-	-	P
50-00-0	0.3	0.37	-	-	A2	P
64-17-5	1000	1880	-	-	A4	-
67-56-1	200	262	250	328	*	S

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
67-56-1	260	200	-	-	Peau

Exposure limit values (2003-2006):

UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
111-30-8	0.05 ppm	0.05 ppm	-	-	-	
50-00-0	2 ppm	2 ppm	-	-	-	
Switzerland	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Temps:	RSB:
111-30-8	0.21 mg/m3	0.05 ppm	0.42 mg/m3	0.1 ppm	4x15	S
50-00-0	0.37 mg/m3	0.3 ppm	0.74 mg/m3	0.6 ppm	4x15	S
64-17-5	960 mg/m3	500 ppm	1920 mg/m3	1000 ppm	4x15	-
67-56-1	260 mg/m3	200 ppm	1040 mg/m3	800 ppm	4x15	R B
Slovakia	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
111-30-8	0.1 ppm	0.42 mg/m3	I.			
50-00-0	0.3 ppm	0.37 mg/m3	VI.			
64-17-5	500 ppm	960 mg/m3	II..1			
67-56-1	200 ppm	260 mg/m3	II..1			
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
111-30-8	0.05 ppm	0.05 ppm	-	-	-	
50-00-0	2 ppm	2 ppm	-	-	-	
64-17-5	1000 ppm	-	-	-	-	
67-56-1	200 ppm	250 ppm	-	-	-	
Czech Rep.	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
111-30-8	-	0.8 mg/m3	-	-	-	
50-00-0	0.5 mg/m3	1 mg/m3	-	-	-	
64-17-5	1000 mg/m3	3000 mg/m3	-	-	-	
67-56-1	250 mg/m3	1000 mg/m3	-	-	-	
España	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
111-30-8	-	0.5 ppm	-	-	-	
50-00-0	-	0.3 ppm	-	-	-	
64-17-5	1000 ppm	-	-	-	-	
67-56-1	200 ppm	250 ppm	-	-	-	

Polska	TWA:	STEL:	Ceiling:	Definition:	Criterion:
111-30-8	0.4 mg/m3	0.6 mg/m3	-	-	-
50-00-0	0.5 mg/m3	1 mg/m3	-	-	-
64-17-5	1900 mg/m3	-	-	-	-
67-56-1	100 mg/m3	300 mg/m3	-	-	-
Belgique	TWA:	STEL:	Ceiling:	Definition:	Criterion:
111-30-8	0.2 ppm	-	-	-	-
50-00-0	-	0.3 ppm	-	-	-
64-17-5	1000 ppm	-	-	-	-
67-56-1	200 ppm	250 ppm	-	-	-
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
64-17-5	1000 ppm	-	-	-	-
67-56-1	200 ppm	250 ppm	-	-	-

Respiratory protection:

With this preparation, avoid in particular any inhalation of vapors.

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

Use Type A1P1 or A2P2 filters.

Hand protection:

When handling this product, wear suitable gloves.

Due to the solvents present neoprene or nitrile type gloves are recommended.

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

Eye and face protection:

Avoid contact with eyes.

Wear safety goggles.

Provide eye washes in workshops where the product is constantly handled

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

Wear suitable protective clothing.

HEALTH MEASURES:

Do not eat, drink or smoke during use.

Wash hands each time after handling.

After each use, systematically wash all personal protective equipment.

Change wet and dirty work clothes immediately.

9 - PHYSICAL AND CHEMICAL PROPERTIES**General information:**

Physical state:	fluid liquid
-----------------	--------------

Important health, safety and environmental information:

pH of the substance or preparation:	slightly acidic.
When a pH measure is possible, it has a value of:	3.50
Boiling point/boiling range:	not specified.
Flash point interval:	Flash point: > 60°C
Flash point:	95.00 °C.
vapour pressure:	not relevant.
Density:	> 1
water solubility:	Soluble.
Density:	1.015

Other information:

melting point/melting range:	not specified.
Self-ignition temperature:	not specified.
Decomposition point/decomposition range :	not specified.

Colour: colourless.

Odour: typical of aldehydes

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

Conditions to avoid:

Do not mix with other products.

Hazardous decomposition products:

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

11 - TOXICOLOGICAL INFORMATION

It is generally agreed that substances contained are likely to cause category 3 carcinogenic effects.

In the event of exposure by inhalation:

Inhalation may lead to irritation of the respiratory tracts.

Sore throat, coughing, shortness of breath, respiratory failure

In the event of swallowing:

Ingestion may lead to irritation of the buccal cavity.

Sore throat, abdominal pain, nausea.

In the event of splashes or contact with skin:

Skin irritation: itching, light to moderate local redness, burning sensation...

In the event of splashes or contact with eyes:

Serious eyes damage.

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

Other data:

Repeated or prolonged exposure may lead to sensitization by inhalation (risk of asthma) and by skin contact (risk of eczema).

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

13 - DISPOSAL CONSIDERATIONS

Do not pour into waterways.

Do not pour large quantities of the product into the drains.

Waste:

Recycle or discard in accordance with the legislation in force, preferably by a collector or an approved company.

Do not contaminate the ground or the water with waste, do not discard waste into the environment.

Soiled packaging:

Completely empty the container. Keep the label(s) on the container.

Hand over to an approved 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 29 * detergents containing dangerous substances

For information :

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

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This product is not classed as flammable.

Preparation classification:



Harmful.

Contains:

605-001-00-5 FORMALDEHYDE

605-022-00-X GLUTARALDEHYDE

Particular hazards associated with the preparation and safety recommendations:

R 42/43	May cause sensitization by inhalation and skin contact.
R 37/38	Irritating to respiratory system and skin.
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 40	Limited evidence of a carcinogenic effect.
R 41	Risk of serious damage to eyes.
S 23	Do not breathe gases or vapours.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 9	Keep container in a well-ventilated place.
S 42	In case of intervention during atomisation or contact time as well as for recovery, wear suitable respiratory equipment (active charcoal cartridge).
S 2	Keep out of the reach of children.

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 given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

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.

Full text of risk phrases appearing in section 2:

R 11	Highly flammable.
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 23/25	Toxic by inhalation and if swallowed.
R 34	Causes burns.
R 39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R 40.C3	Limited evidence of a carcinogenic effect.
R 42/43	May cause sensitization by inhalation and skin contact.
R 43	May cause sensitisation by skin contact.
R 50	Very toxic to aquatic organisms.