

SAFEBALM ARTERIEL - SAFEBALM ARTERIEL

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : SAFEBALM ARTERIEL

Product code : SAFEBALM ARTERIEL.

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

Biocidal product : embalming (product type 22)

Formulation type : SL

1.3. Details of the supplier of the safety data sheet

Registered company name : HYGECO.

Address : 20 Boulevard de la Muette - BP 64.95142.GARGES-LES-GONESSE CEDEX.FRANCE.

Telephone : +33 (0) 1 34 53 40 60. Fax : +33 (0) 1 39 86 34 00.

info@hygeco.com

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

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

Other emergency numbers

In an emergency, call 15 or poison control center

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Flammable liquid, Category 2 (Flam. Liq. 2, H225).

Acute inhalation toxicity, Category 3 (Acute Tox. 3, H331).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 1 (STOT SE 1, H370).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Flammable (R 10).

Acute inhalation toxicity: toxic (T, R 23).

Irreversible non-lethal effects after a single oral exposure: toxic (T, R 39/25).

Irreversible non-lethal effects after a single cutaneous exposure: toxic (T, R 39/24).

Irreversible non-lethal effects after a single inhalation exposure: toxic (T, R 39/23).

Skin irritation (Xi, R 38).

Eye irritation (Xi, R 36).

Aquatic environmental hazard, acute toxicity: very toxic (N, R 50).

2.2. Label elements

Biocidal mixture (see section 15).

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

Hazard pictograms :



GHS06



GHS09



GHS08



GHS02

Signal Word :

DANGER

Product identifiers :

EC 200-659-6

METHANOL

Hazard statements :

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H331

Toxic if inhaled.

H370

Causes damage to organs (if inhaled, if swallowed, in contact with skin).

H400

Very toxic to aquatic life.

Precautionary statements - Prevention :

P210

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P284

Wear respiratory protection.

Precautionary statements - Response :

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307 + P311

IF exposed: Call a POISON CENTER or doctor/physician.

Precautionary statements - Disposal :

P501

Dispose of contents/container to ...

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>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 67-56-1 EC: 200-659-6 METHANOL	GHS06, GHS08, GHS02 Dgr Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	T,F T;R23/24/25-R39/23/24/25 F;R11	[1]	20 \leq x % < 50
INDEX: 603-085-00-8 CAS: 52-51-7 EC: 200-143-0 BRNOPOL (INN)	GHS05, GHS07, GHS09 Dgr Acute Tox. 4, H312 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 10	Xn,N Xn;R21/22 Xi;R37/38-R41 N;R50		3 \leq x % < 10

Information on ingredients :

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

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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.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

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

Give nothing by mouth

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash skin thoroughly with soap and water or a recognized cleaner

Beware any remaining product between skin and clothing, watches, shoes, etc.

In the event of swallowing :

In case of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep at rest. Do not induce vomiting.

In case of accidental ingestion call a doctor to judge the appropriateness of monitoring and subsequent treatment year hospital, if necessary. Show the label.

Give nothing by mouth

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

5.1. Extinguishing media

In case of fire, use specifically suitable extinguishing agents. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable methods of extinction

In the event of a fire, use :

Special foams for polar liquids (known as alcohol resistant), powders, carbon dioxide.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

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.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Due to the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

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.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Fire prevention :

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

Avoid eye contact with this mixture.

Containers which are opened must be carefully resealed and kept upright.

Provide adequate ventilation of premises

Prohibited equipment and procedures :

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

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep well away from all sources of ignition, heat and direct sunlight.

Store in accordance with regulations

Keep only in the original container

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7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

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

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-56-1	200 ppm	250 ppm	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
67-56-1	200 ml/m3	270 mg/m3	4(II)	DFG, EU, H, Y

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
67-56-1	200	260	1000	1300	(12)	84

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-56-1	200 ppm	250 ppm	-	-	-

8.2. Exposure controls**Suitable technical inspections**

Ensure adequate ventilation

Periodic inspections of the methanol content in the working atmosphere.

Organisational measures to prevent/reduce the emission, propagation and exposure.

(Decree 2009/1570 of 15/12/2009 on the control of WEL on the workplace.

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.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Observe strict personal hygiene and clothing : wash face and hands before every meal, move to shower and change clothes after work.

- Hand protection

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

Protective creams may be used for exposed skin, they should however not be applied after contact with the product.

- Body protection

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

Avoid contact with skin

- Respiratory protection

Avoid breathing vapours.

Also provide breathing apparatus for exceptional work that can generate high exposures or for emergency response.

anti-gas filters (combined and assisted ventilation)

Provide general ventilation of rooms

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
Color:	yellow orange
Odour:	alcohol

Important health, safety and environmental information

pH (aqueous solution) :	6 à 1%
pH :	7.30 pur. Neutral.
Boiling point/boiling range :	> 35°C
Flash Point :	22.50 °C.
Flammability (solid, gas) :	Non déterminé
Explosive properties, lower explosivity limit (%) :	Non applicable
Explosive properties, upper explosivity limit (%) :	Non applicable
Oxidising properties :	Non comburant
Vapour pressure (50°C) :	Not relevant.
Vapour density :	Non applicable
Density :	1.07
Water solubility :	Soluble.
Partition coefficient: n-octanol/water :	Non applicable
Viscosity :	5.2 mPa*s (20°C)
Evaporation rate :	Non déterminé
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.
Explosive properties	not explosive

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide, carbon dioxide, smoke and nitrogen oxide

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

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- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic by inhalation.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Causes damage to organs.

11.1.1. Substances

No toxicological data available for the substances.

11.1.2. Mixture**Acute toxicity :**

Oral route : No observed effect.
LD50 > 5000 mg/kg

Dermal route : No observed effect.
LD50 > 5000 mg/kg

Skin corrosion/skin irritation :

Irritating to the skin according to Directive 1999/45/CE

Serious damage to eyes/eye irritation :

Causes serious eye irritation.

Respiratory or skin sensitisation :

Not a skin sensitizer

Specific target organ systemic toxicity - single exposure :

Causes damage to organs.

SECTION 12 : ECOLOGICAL INFORMATION

Highly toxic to aquatic life.

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

12.1. Toxicity**12.1.1. Substances**

Substance acute toxicity category 1

BRNOPOL (CAS N°52-51-7) : Very toxic to aquatic organisms

12.1.2. Mixtures

Very toxic to aquatic organisms

No ecological data on the product itself is available

Any leaks in drains or watercourses should be avoided

12.2. Persistence and degradability

No data available.

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.

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SECTION 13 : DISPOSAL CONSIDERATIONS

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

13.1. Waste treatment methods

Do not pour into drains or waterways.

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.

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

Soiled packaging :

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

Give to a certified disposal contractor.

Local arrangements :

The regulation on waste is codified in the Code of the Environment, according to ordinance N° 2000-914 of 18/09/2000 relating to the legislative part of the Code of the Environment.

Different texts found in Article L.541-1 to L.541-50 item located in Book V (Prevention of pollution, risks and nuisances), Title IV (waste), Chapter I (Waste disposal and recovery of materials).

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 2013 - IMDG 2012 - ICAO/IATA 2013).

14.1. UN number

2929

14.2. UN proper shipping name

UN2929=TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

(bronopol (inn), methanol)

14.3. Transport hazard class(es)

- Classification :



6.1+3

14.4. Packing group

II

14.5. Environmental hazards

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	6.1	TF1	II	6.1+3	63	100 ml	274	E4	2	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	6.1	3	II	100 ml	F-E,S-D	274	E4

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	6.1	3	II	654	5 L	662	60 L	A4 A137	E4

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	6.1	3	II	Y641	1 L	-	-	A4 A137	E4
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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 MARPOL73/78 and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Container information:

No data available.

- Particular provisions :

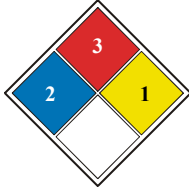
No data available.

Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

Hazardous chemical agents : Decree N°2003-1254 of 23/12/2003

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=2 Inflammability=3 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

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.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

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 and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Toxic



Dangerous for the environment

Flammable

Contains :

603-085-00-8
EC 200-659-6

BRONOPOL (INN)
METHANOL

Risk phrase :

R 50

Very toxic to aquatic organisms.

R 36/38

Irritating to eyes and skin.

R 23

Toxic by inhalation.

R 10

Flammable.

R 39/23/24/25

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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Safety phrase :

S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 38	In case of insufficient ventilation, wear suitable respiratory equipment.
S 60	This material and its container must be disposed of as hazardous waste.
S 7/9	Keep container tightly closed and in a well-ventilated place.
S 37/39	Wear suitable gloves and eye/face protection.

Title for H, EUH and R indications mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs .
H400	Very toxic to aquatic life.
R 11	Highly flammable.
R 21/22	Harmful in contact with skin and if swallowed.
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 37/38	Irritating to respiratory system and skin.
R 39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R 41	Risk of serious damage to eyes.
R 50	Very toxic to aquatic organisms.

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.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS02 : Flame
GHS06 : Skull and crossbones
GHS08 : Health hazard
GHS09 : Environment