

CALBENIUM LIQUIDE MENTHE FRUITE



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 : CALBENIUM LIQUIDE MENTHE FRUITE

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

Use in Odontology. It must imperatively be diluted to 2%.

1.3. Details of the supplier of the safety data sheet

Registered company name : AIREL.

Address : 917, rue Marcel Paul - Z.A. des Grands Godets.94500.Champigny-sur-Marne.France.

Telephone : 01 48 82 22 22. Fax : 01 48 82 46 13.

Email : office@airrel.com

http://www.airrel.com

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

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

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

May produce an allergic reaction (EUH208).

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

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

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

Hazard pictograms :



GHS09

Signal Word :

WARNING

Additional labeling :

EUH208

Contains BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3).
May produce an allergic reaction.

Hazard statements :

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P273 Avoid release to the environment.

Precautionary statements - Response :

P391 Collect spillage.

Precautionary statements - Disposal :

P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

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

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 139-33-3 EC: 205-358-3 REACH: 01-2119486775-20 DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE	GHS07, GHS08 Wng Acute Tox. 4, H332 STOT RE 2, H373		2.5 <= x % < 10
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	1 <= x % < 2.5
CAS: 57-09-0 EC: 200-311-3 REACH: 01-2119989160-35 CETRIMONIUM BROMIDE	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 M Acute = 100		0 <= x % < 1
CAS: 7080-50-4 EC: 204-854-7 BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3)	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Resp. Sens. 1, H334 EUH:031		0 <= x % < 1
CAS: 30007-47-7 EC: 250-001-7 5-BROMO-5-NITRO-1,3-DIOXANNE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

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

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

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.

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

No data available.

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.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

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.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

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

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No data available.

Storage

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

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

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

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5		1000 ppm		A3	

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

CAS	VME :	VME :	Excess	Notes
64-17-5		500 ppm 960 mg/m ³		2(II)

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm 1907 mg/m ³				

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84

- Switzerland (SUVAPRO 2017) :

CAS	VME	VLE	Valeur plafond	Notations
64-17-5	500 ppm 960 mg/m ³	1000 ppm 1920 mg/m ³		SSC

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm 1920 mg/m ³	- ppm - mg/m ³			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ETHANOL (CAS: 64-17-5)

Final use:Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:**Workers.**Dermal contact.
Long term systemic effects.
343 mg/kg body weight/dayInhalation.
Long term systemic effects.
950 mg of substance/m³Inhalation.
Short term local effects.
1900 mg of substance/m³**Consumers.**Ingestion.
Long term systemic effects.
87 mg/kg body weight/dayDermal contact.
Long term systemic effects.

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DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 950 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 114 mg of substance/m3

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)

Final use: **Workers.**
Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.5 mg of substance/m3

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.6 mg of substance/m3

Predicted no effect concentration (PNEC):

ETHANOL (CAS: 64-17-5)

Environmental compartment: Soil.
PNEC : 0.63 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.96 mg/l

Environmental compartment: Sea water.
PNEC : 0.79 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 2.75 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 3.6 mg/kg

Environmental compartment: Marine sediment.
PNEC : 2.9 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 580 mg/l

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)

Environmental compartment: Soil.
PNEC : 0.72 mg/kg

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Environmental compartment: PNEC :	Fresh water. 2.2 mg/l
Environmental compartment: PNEC :	Sea water. 0.22 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 1.2 mg/l
Environmental compartment: PNEC :	Waste water treatment plant. 43 mg/l

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



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.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- 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.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

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.

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

Physical state :	Fluid liquid.
Colour:	Blue.
Odour:	Mint.

Important health, safety and environmental information

pH :	5.50 ± 0.5. Neutral.
Boiling point/boiling range :	100 °C.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	1.03 ± 0.01 (20°C)
Water solubility :	Dilutable.

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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

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

Keep away from :

- oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity :

5-BROMO-5-NITRO-1,3-DIOXANNE (CAS: 30007-47-7)

Oral route : LD50 = 455 mg/kg
Species : Rat

BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3) (CAS: 7080-50-4)

Oral route : LD50 = 1000 mg/kg
Species : Rat

Inhalation route (n/a) : LC50 > 0.275 mg/l

CETRIMONIUM BROMIDE (CAS: 57-09-0)

Oral route : LD50 = 465 mg/kg
Species : Rat

Dermal route : LD50 = 2150 mg/kg
Species : Rabbit

Inhalation route (n/a) : LC50 = 1.8 mg/m³
Species : Mouse

ETHANOL (CAS: 64-17-5)

Oral route : LD50 = 10470 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : 2,000 < LD50 <= 5000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) : LC50 = 51 mg/l

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Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)

Oral route : 2000 < LD50 <= 5000 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Serious damage to eyes/eye irritation :

ETHANOL (CAS: 64-17-5)

Causes serious eye irritation.

Corneal haze :

1 <= Average score < 2 and effects totally reversible within 21 days of observation

Conjunctival redness :

2 <= Average score < 2.5 and effects totally reversible within 21 days of observation

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

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

12.1. Toxicity

12.1.1. Substances

5-BROMO-5-NITRO-1,3-DIOXANNE (CAS: 30007-47-7)

Fish toxicity : LC50 = 0.5 mg/l
Factor M = 1
Species : Leuciscus idus
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 2.4 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

ETHANOL (CAS: 64-17-5)

Fish toxicity : LC50 = 11200 mg/l
Species : Salmo gairdneri
Duration of exposure : 24 h

NOEC = 245 mg/l

Crustacean toxicity :

EC50 = 858 mg/l
Species : Artemia salina
Duration of exposure : 24 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 9.6 mg/l

Algae toxicity :

ECr50 = 275 mg/l
Species : Chlorella vulgaris
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)

Fish toxicity : LC50 > 100 mg/l

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	Species : <i>Lepomis macrochirus</i> Duration of exposure : 96 h
Crustacean toxicity :	EC50 > 100 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h
Algae toxicity :	ECr50 > 100 mg/l Species : <i>Scenedesmus subspicatus</i> Duration of exposure : 72 h
BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3) (CAS: 7080-50-4)	
Fish toxicity :	LC50 = 31 mg/l Species : <i>Poecilia reticulata</i> Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 4.5 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h
Algae toxicity :	ECr50 = 80 mg/l Species : <i>Chlorella pyrenoidosa</i> Duration of exposure : 72 h
	NOEC = 1.1 mg/l
CETRIMONIUM BROMIDE (CAS: 57-09-0)	
Fish toxicity :	LC50 = 0.2 mg/l Factor M = 1 Species : <i>Danio rerio</i> Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 0.026 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h
	NOEC = 0.023 mg/l Duration of exposure : 21 days OECD Guideline 211 (<i>Daphnia magna</i> Reproduction Test)
Algae toxicity :	ECr50 = 0.00411 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

5-BROMO-5-NITRO-1,3-DIOXANNE (CAS: 30007-47-7)	
Biodegradability :	Non-rapidly degradable.
BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3) (CAS: 7080-50-4)	
Biodegradability :	Rapidly degradable.
CETRIMONIUM BROMIDE (CAS: 57-09-0)	
Biodegradability :	Rapidly degradable.
ETHANOL (CAS: 64-17-5)	
Biodegradability :	Rapidly degradable.

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DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)
Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

BENZENESULFONAMIDE, N-CHLORO-4-METHYL-, SODIUM SALT, HYDRATE (1:1:3) (CAS: 7080-50-4)
Octanol/water partition coefficient : log K_{ow} = -1.3

CETRIMONIUM BROMIDE (CAS: 57-09-0)
Octanol/water partition coefficient : log K_{ow} = 3.18

ETHANOL (CAS: 64-17-5)
Octanol/water partition coefficient : log K_{ow} = -0.35
OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE (CAS: 139-33-3)
Octanol/water partition coefficient : log K_{ow} = -4.3

Bioaccumulation : BCF = 1.8
Species : *Lepomis macrochirus* (Fish)

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.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

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.

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

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cetrimonium bromide, 5-bromo-5-nitro-1,3-dioxane)

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14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

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
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335 969	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

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

No data available.

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:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)

- Container information:

No data available.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

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

:

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



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- Swiss ordinance on the incentive tax on volatile organic compounds :

64-17-5 éthanol, seulement s'il s'agit d'alcools impropres à la consommation (art. 31 de la loi fédérale sur l'alcool)

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.

Wording of the phrases mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

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).

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.