

CERT TORNADE AD MENTHE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 - Product identifier

Trade name/designation CERT TORNADE AD MENTHE

Chemical name

Product-type Mixture

Product code 10859

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

Relevant identified uses

- Formulation type: Soluble concentrate (SL)
- Multi-purpose disinfectant detergent
- Professional use of sanitary cleaners
- Natural Detergent certified by ECOCERT Greenlife according to the ECOCERT standard available at <http://detergents.ecocert/en>
- Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals
- Product-type 4: Food and feed area
- Scope of application:
 - *Field of use: Indoors disinfection in private and public areas: institutions, industries (including cosmetic and pharmaceutical industries), and health care facilities (excluding the hospitals)
 - * Application method(s)
 - * Manual liquid spraying
 - * Manual spraying using a disinfection unit with automatic dilution
 - * Manual soaking
 - * Wiping/sponging/brushing without mechanical action (TP2)
 - * Manual surface spraying with a trigger sprayer (liquid/foam spraying).

Uses advised against

- Use biocides safely. Always read the label and product information before use.
- Concentrated product, do not use pure.

1.3 - Details of the supplier of the safety data sheet

IPC

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29218 BREST CEDEX 2 France

Telephone : 0298434544

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1.4 - Emergency telephone number

- National Poisons Information Service of England: <http://npis.org> -
NHS 111: dial 111 United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Substances or mixtures corrosive to metals - Category 1: Declassified (see - Test) - available on request report No. 20-907022-004 In compliance with United Nations Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria Seventh revised edition (2019) - Method C.1. (Part III, Section 37.4.) Regulation EC No. 1272/2008 (CLP)

Skin Corr. 1C	Skin corrosion, Category 1C
Skin Sens. 1	Skin sensitization - Category 1
Eye Dam. 1	Serious eye damage, Category 1

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (CAS No.: 79-33-4) | Sulfuric acid, mono-C12-16-alkyl esters, sodium salts (CAS No.: 73296-89-6) | D-Glucopyranose, oligomers, decyl octyl glycosides (CAS No.: 68515-73-1) | Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS No.: 68891-38-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P273	Avoid release to the environment.
P260	Do not breathe spray.
P280	Wear protective gloves/protective clothing/eye protection.
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/a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

EUH-phrases

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EUH071	Corrosive to the respiratory tract.
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Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:

- 5% or more but less than 15%: anionic surfactants, nonionic surfactants
- Disinfectants
- perfumes
- L-MENTHOL

2.3 - Other hazards

PBT substances

- No substance present at more than 0.1% meets the criteria for classification as a PBT substance according to annex XIII of REACH regulation (EU) n ° 1907/2006

vPvB substances

- No substance present at more than 0.1% meets the criteria for classification as a vPvB substance in accordance with Annex XIII of REACH Regulation (EU) No. 1907/2006

Other hazards which do not result in classification - No other hazard identified in the current state of our knowledge

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Information on the substance
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid INCI: L-(+)-lactic acid	CAS No. : 79-33-4 Index No. : 607-743-00-5 EC No. : 201-196-2	15 - 30	Eye Dam. 1 - H318 Skin Corr. 1C - H314 EUH071	(a)
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts INCI: SODIUM LAURYL SULFATE	CAS No. : 73296-89-6 Index No. : EC No. : 277-362-3 REACH No. : 01-2119489464-26-XXXX	5 - 15	Aquatic Chronic 3 - H412 Eye Dam. 1 - H318 Skin Irrit. 2 - H315	Eye Irrit. 2 - H319 : 10<%=<20 Eye Dam. 1 - H318 : 20<%=<=100 (a)
CITRIC ACID MONOHYDRATE INCI: CITRIC ACID	CAS No. : 5949-29-1 Index No. : 607-750-00-3 EC No. : 201-069-1 REACH No. : 01-2119457026-42-XXXX	5 - 15	Eye Irrit. 2 - H319 STOT SE 3 - H335	(a)
D-Glucopyranose, oligomers, decyl octyl glycosides INCI: CAPRYLYL/CAPRYL GLUCOSIDE	CAS No. : 68515-73-1 Index No. : EC No. : 500-220-1 REACH No. : 01-2119488530-36	5 - 15	Eye Dam. 1 - H318	Eye Dam. 1 - H318 : 10<%=<100 (a)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts INCI: SODIUM LAURETH SULFATE	CAS No. : 68891-38-3 Index No. : EC No. : 500-234-8 REACH No. : 01-2119488639-16-XXXX	1 - 5	Aquatic Chronic 3 - H412 Eye Dam. 1 - H318 Skin Irrit. 2 - H315	Eye Irrit. 2 - H319 : 5<%=<=10 Eye Dam. 1 - H318 : 10<%=<=100 (a)

(a) Substance contributing to the classification

(b) Substance with exposure limite value

SECTION 4: First aid measures

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4.1 - Description of first aid measures

<u>Following inhalation</u>	- If symptoms occur: Call 112 or 15 for medical assistance.
<u>Following skin contact</u>	- IF ON SKIN (or hair): Immediately rinse contaminated clothing and skin with plenty of water before removing them. Take off all contaminated clothing. Wash contaminated clothing before reuse. Continue rinsing skin with water for 15 min. Call a poison control center/doctor.
<u>After eye contact</u>	- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112 or 15 for medical assistance. - * Information for healthcare personnel/physician: Eyes should also be rinsed repeatedly in case of eye exposure to alkaline chemicals (pH > 11), amines and acids such as acetic acid, formic acid, lactic acid or propionic acid.
<u>After ingestion</u>	- IF SWALLOWED: Rinse mouth immediately. Give something to drink if the exposed person is able to swallow. DO NOT induce vomiting. Call 112 or 15 for medical assistance.

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

<u>Symptoms and effects - Following inhalation</u>	- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.
<u>Symptoms and effects - Following skin contact</u>	- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.
<u>Symptoms and effects - After eye contact</u>	- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.
<u>Symptoms and effects - After ingestion</u>	- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.

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

- If no symptoms occur: Call a poison control center/doctor.
- If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	- 1 - Class B lights: - 2 - Powder extinguisher (dry multipurpose ABC and BC powder) - 3 - CO2 fire extinguisher - 4 - Water with AFFF (Floating Film Forming Agent) additive - 5 - Foam - 6 - Sand - 7 - Fire blanket
<u>Unsuitable extinguishing media</u>	- 1 - Water spray extinguishers without additives, except for flammable fires with a flashpoint above 100°C - 2 - Water jet spray - 3 - Water should not be used on liquids less dense than water

5.2 - Special hazards arising from the substance or mixture

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Special hazards arising from the substance or mixture - A fire will often produce thick black smoke. Exposure to decomposition products can cause health risks

Hazardous decomposition products - Do not breathe fumes. Combustion products may contain carbon monoxide, carbon dioxide (CO₂), nitrogen oxide (NO), nitrogen dioxide (NO₂)

5.3 - Advice for firefighters

- * Main fire-fighting measures:
- 1- The intervention must be carried out wearing boots, gloves, eye and face protection, a self-contained breathing apparatus and a suit adapted to the chemical substances
- 2- Remove the fuel.
- 3- Prevent the containers from heating up by using water curtains or a heat shield.
- 4- Isolate the impacted area.
- 5- Adapting extinguishing measures to the surrounding environment
- 6- Do not allow extinguishing water to enter drains and waterways, treat as hazardous waste.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - *Procedure in the event of a spill

- 1- Alert / evacuate people in the immediate area.
- 2- Cut off the source of the spill and sources of ignition and heat
- 3- Schließen Sie die Türen oder sperren Sie den Bereich mit Klebeband ab.
- 4- Put on the appropriate personal protective equipment (see section 8).
- 5 - Avoid breathing the vapours and wear an appropriate filter mask
- 6- Contain and cover the spill with suitable absorbent granules (see 6.3).
- 7- Ventilate to the outside.
- 8- Collect the absorbent granules and dispose of them as hazardous waste (see heading 13). Clean the soiled area thoroughly with water.
- 9- If the spill is not under control, call the emergency services on site and prepare the Safety Data Sheets (SDS) to be given to the response team. If there are signs of seriousness, evacuate the houses. Report the accident to the DREAL.

For emergency responders - Rescuers are equipped with appropriate personal protective equipment (see section 8).

6.2 - Environmental precautions

- 1 - Avoid release to the environment.
- 2 - Prevent run-off into waterways, sewers, basements or enclosed spaces
- 3 - Contain and collect spills with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth in drums for waste disposal
- 4 - Waste from cleaning up the spill should be treated as hazardous waste.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- * Set up a protective enclosure: use socks, absorbent sheets and pads for minor spills and booms, absorbent rolls for major spills.
- *Contain and collect spills with non-combustible absorbent materials in drums for waste disposal.
- *Sewer covers: use blanket covers, unless the building is on retention and the sewers are connected to retention tanks.

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Methods and material for cleaning up - Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4 - Reference to other sections

- *Refer to Section 13 for the management of contaminated absorbents
- *See section 4 for first aid measures
- *See section 5 for fire-fighting measures
- *See section 8 for personal protective equipment

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- It is recommended to design all work processes always so that the following is excluded: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact

Advices on general occupational hygiene

- * Read the label or leaflet before use and follow the specific instructions for each use.
- * Avoid contact with skin, eyes and clothing.
- *The work clothes used must not be worn outside the work area.
- *Wash soiled clothing before reuse.
- *Do not eat, drink, smoke or snuff during use.
- * Wash your hands after each use
- * Equipment, utensils or materials to be disinfected can be pre-washed with water to remove excess dirt.
- * Rinsing surfaces and equipment not intended for contact with food, beverages or foodstuffs is optional but recommended.
- * For the professional attendant: * Do not be present in the treatment area during spray disinfection. If presence is necessary, wear the same PPE as the operator.
- * Do not touch the treated surface until it is completely rinsed and dry.
- * For dipping use: Do not immerse hands in the immersion bath. Use a basket or suitable equipment for immersion and recovery of treated equipment to avoid direct contact with the product.

7.2 - Conditions for safe storage, including any incompatibilities

- *Prohibit access to unauthorized persons.
- *Storage should be separate from bases.
- * Protect from frost.
- * Store at room temperature in the original packaging tightly closed
- * Store away from light
- * Keep container tightly closed and in a well-ventilated place.
- Storage temperature : 5-40°C
- Maximum storage time : 24 months

7.3 - Specific end use(s)

- For more information on the use of the product, see the technical data sheet and the label.
- Surface disinfectant
- Apply only on non porous surfaces.

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- When diluting the product, pour in almost all of the water first, then the product, then the remaining water.
- For medical environment: clean surfaces thoroughly before applying the product.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

DNEL / PNEC

CITRIC ACID MONOHYDRATE (5949-29-1)			
Type	Value	User	Effect
PNEC aquatic, freshwater	0,44 mg/l		
PNEC aquatic, marine water	0,044 mg/l		
PNEC sediment, freshwater	3,46 mg/kg		
PNEC sediment, marine water	34,6 mg/kg		
PNEC soil	33,1 mg/kg		
PNEC sewage treatment plant (STP)	1000 mg/l		
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	35,7 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	420 mg/m ³	Workers	Systemic
DNEL long-term inhalative	124 mg/m ³	Consumers	Systemic
DNEL long-term dermal	595000 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	357000 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0,176 mg/l		
PNEC aquatic, marine water	0,018 mg/l		
PNEC sediment, freshwater	1,516 mg/kg		
PNEC sediment, marine water	0,152 mg/kg		
PNEC soil	0,654 mg/kg		
PNEC sewage treatment plant (STP)	560 mg/l		
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts (73296-89-6)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	24 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	85 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	285 mg/m ³	Workers	Systemic
DNEL long-term dermal	2440 mg/kg bw/day	Consumers	Systemic
DNEL long-term dermal	4060 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0,096 mg/l		
PNEC aquatic, marine water	0,0096 mg/l		
PNEC aquatic, intermittent release	0,036 mg/l		
PNEC sediment, freshwater	3,37 mg/kg		
PNEC sediment, marine water	0,337 mg/kg		
PNEC soil	0,616 mg/kg		
PNEC sewage treatment plant (STP)	1084 mg/l		
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	15 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	52 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	175 mg/m ³	Workers	Systemic
DNEL long-term dermal	1650 mg/kg bw/day	Consumers	Systemic
DNEL long-term dermal	2750 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	0,132 mg/cm ²	Workers	Local
DNEL long-term dermal	0,079 mg/cm ²	Consumers	Local
PNEC aquatic, freshwater	0,24 mg/l		

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PNEC aquatic, marine water	0,024 mg/l		
PNEC aquatic, intermittent release	0,071 mg/l		
PNEC sediment, freshwater	0,9168 mg/kg		
PNEC sediment, marine water	0,09168 mg/kg		
PNEC soil	7,5 mg/kg		
PNEC sewage treatment plant (STP)	10000 mg/l		

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)			
Type	Value	User	Effect
PNEC aquatic, freshwater	1,3 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- 1 - Ensure adequate ventilation of the storage area.
- 2 - Maintain the premises and workstations in a perfect state of cleanliness and clean them frequently
- 3 - Store personal protective equipment in a clean place, away from the work area.
- 4 - Use clean and properly maintained personal protective equipment. Check the condition before use.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection



- Tested protective gloves must be worn



- It is advisable to use protective gloves against chemical risks (Standard NF EN 374-1: 2016)

- Protective clothing



- It is advisable to use protective clothing against chemical risk (Standard NF EN 14605)

- For trigger spray application only: respiratory protection equipment.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	Amber	<u>Odour</u>	Menthe
Odour threshold	No data available		
pH	2 < V < 3 @ 20 °C		
Melting point	No data available		
Freezing point	No data available		

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Boiling point	No data available
Flash point	> 65 °C
Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1,12 < V < 1,14 @ 20 °C
Density	No data available
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	0,0342 %
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.
- Beware of reactions between acids and bases

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

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LD50 dermal (rabbit)	> 5000 mg/kg Le produit n'a pas été testé. L'indication donnée est dérivée de substances/produits ayant une structure ou un composition similaire.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
LD50 oral (rat)	2870 mg/kg < V < 4100 mg/kg OCDE 401
LD50 dermal (rat)	> 2000 mg/kg OCDE 402
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)	
LD50 oral (rat)	3543 mg/kg
LD50 dermal (rabbit)	2000 mg/kg
LC50 inhalation vapours (rat)	/ 4h

Skin corrosion/irritation - Skin corrosion, Category 1C - Causes severe skin burns and eye damage.

- Irritating to skin.

Serious eye damage/eye irritation - Serious eye damage, Category 1

- Risk of serious damage to eyes.
- Causes serious eye irritation.

Respiratory or skin sensitisation - Skin sensitization - Category 1 - May cause an allergic skin reaction.

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

- data lacking

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

11.2 - Information on other hazards

- The mixture does not contain substances identified as endocrine disruptors for human health
- Interaction effects of substances in the mixture: No data on interaction effects of

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available

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ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

Toxicity : Substances

CITRIC ACID MONOHYDRATE (5949-29-1)	
EC50 48 hr crustacea	1535 mg/l (Daphnia magna)
LC50 96 hr fish	440 mg/l < V < 706 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
EC50 48 hr crustacea	> 100 mg/l (Daphnia magna) OCDE 202
LC50 96 hr fish	> 100 mg/l Danio rerio (poisson zèbre) OCDE 203
ErC50 algae	10 mg/l < V < 100 mg/l 72h; Algues d'eau douce: Desmodesmus subspicatus
NOEC chronic fish	> 1 mg/l (28 jours) Danio rerio (poisson zèbre)
NOEC chronic crustacea	> 1 mg/l (Daphnia magna) OCDE 202 21 jours
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts (73296-89-6)	
EC50 48 hr crustacea	10 mg/l < V < 100 mg/l (Daphnia magna) Le produit n'a pas été testé. L'indication donnée est dérivée de substances/produits ayant une structure ou une composition similaire.
LC50 96 hr fish	10 mg/l < V < 100 mg/l Leuciscus idus (Screening sur le modèle de OCDE 203)
ErC50 algae	10 mg/l < V < 100 mg/l (Scenedesmus subspicatus) Le produit n'a pas été testé. L'indication donnée est dérivée de substances/produits ayant une structure ou une composition similaire.

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NOEC chronic fish	1 mg/l < V < 10 mg/l (Pimephales promelas) Le produit n'a pas été testé. L'indication donnée est dérivée de substances/produits ayant une structure ou une composition similaire.
NOEC chronic crustacea	1 mg/l < V < 10 mg/l (Daphnia magna) Le produit n'a pas été testé. L'indication donnée est dérivée de substances/produits ayant une structure ou une composition similaire.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
EC50 48 hr crustacea	7,4 mg/l (Daphnia magna) OCDE 202
LC50 96 hr fish	7,1 mg/l Danio rerio (poisson zèbre) OCDE 203 <1-10 mg/l (Brachydanio rerio)
ErC50 algae	27,7 mg/l 72 h OCDE 201 >10-100 mg/l (Desmodesmus subspicatus (algues vertes))
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)	
EC50 48 hr crustacea	130 mg/l
LC50 96 hr fish	130 mg/l
ErC50 algae	2800 mg/l
NOEC chronic fish	2,18 mg/l
NOEC chronic algae	1900 mg/l

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Substances

CITRIC ACID MONOHYDRATE (5949-29-1)	
Biochemical oxygen demand (BOD)	526 mg/g
Chemical oxygen demand (COD)	728 mg/g

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% of biodegradation in 28 days	97 % (10 mg/l; par rapport à : formation de CO ₂ (% de la valeur théorique).; Durée d'exposition: 28 jr)(OCDE Ligne directrice 301 B)Facilement biodégradable
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
% of biodegradation in 28 days	100 % 28 jours Facilement biodégradable
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts (73296-89-6)	
% of biodegradation in 28 days	Facilement biodégradable (selon les critères OCDE)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
% of biodegradation in 28 days	100 % 28 jours Facilement biodégradable
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)	
% of biodegradation in 28 days	Facilement biodégradable

12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

CITRIC ACID MONOHYDRATE (5949-29-1)	
Log KOC	-1,6
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Log KOC	< 1,77 faible
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)	
Log KOC	-0,54

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- No substance present at more than 0.1% meets the criteria for classification as a PBT substance according to annex XIII of REACH regulation (EU) n ° 1907/2006

- No substance present at more than 0.1% meets the criteria for classification as a vPvB substance in accordance with Annex XIII of REACH Regulation (EU) No. 1907/2006

12.6 - Endocrine disrupting properties

- This mixture does not contain substances with endocrine disrupting properties for non-target organisms, as they do not meet the criteria set out in part B of Regulation (EU) 2017/2100

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12.7 - Other adverse effects

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods

- Waste code for the product: 16 03 05*
- Waste code for packaging: 15 01 10* (Packaging containing residues of or contaminated by dangerous substances)
- * Waste sorting instructions:
 - 1- Appropriate waste management of the mixture and/or its container must be determined in accordance with the provisions of Directive 2008/98/EC.
 - 2- Afvalbeheer gebeurt zonder de menselijke gezondheid in gevaar te brengen en zonder het milieu te schaden, en in het bijzonder zonder een risico te vormen voor water, lucht, bodem, fauna of flora.
 - 3- Recycle or eliminate in accordance with the legislation in force, preferably by a collector or an approved company.
 - 4- Do not contaminate the ground or water with waste, do not dispose of it in the environment.
 - 5- Dispose of unused product, its packaging and any other waste in an appropriate collection circuit.

Sewage disposal

- Do not discharge unused product on the ground, into water courses, into pipes (sink, toilets...) nor down the drains.

Special precautions for waste treatment

- * Respect the method of treatment taking into account the "Waste Hierarchy": (Waste Framework Directive)
 - 1. Prevention (reducing consumption, extending life, reducing the harmful effects of the waste or the content of harmful substances)
 - 2. Preparation for re-use (checking, cleaning or repairing for recovery of waste for re-use without pre-treatment)
 - 3. Recycling (reprocessing of waste into products, materials or substances for their original function or for other purposes)
 - 4. Other recovery, including energy recovery (making the waste replace materials that would have been used, or fuels for energy recovery)
 - 5. Disposal (any operation that is not recovery)

Community or national or regional provisions

- For waste disposal, contact the relevant authorised waste disposal service.

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1903
<u>UN number (RID)</u>	:	UN1903
<u>UN number (ADN)</u>	:	Not applicable
<u>UN number (IMDG)</u>	:	UN1903
<u>UN number (IATA)</u>	:	Not applicable

14.2 - UN proper shipping name

CERT TORNADE AD MENTHE

UN proper shipping name (ADR) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid)
UN proper shipping name (RID) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid)
UN proper shipping name (IMDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid)

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 8
ADR Classification code: : C9
Pictograms



8

Transport hazard class(es) (RID) : 8
Pictograms



8

Transport hazard class(es) (IMDG) : 8
Pictograms



8

14.4 - Packing group

Packing group : III
Packing group (RID) : III
Packing group (IMDG) : III

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

CERT TORNADE AD MENTHE

ADR

<u>ADR Classification code:</u>	:	C9
<u>ADR Special provisions</u>	:	274
<u>ADR Limited quantity (LQ)</u>	:	5L
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P001 IBC03 LP01 R001
<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>ADR tank code</u>	:	L4BN
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	
<u>ADR Hazard identification number (Kemler No.)</u>	:	80

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	223 274
<u>Limited quantity (LQ)</u>	:	5 L
<u>Excepted quantities</u>	:	E1
<u>Packing instructions</u>	:	P001 LP01
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC03
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-A, S-B
<u>Stowage and handling</u>	:	Category A
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	A wide variety of corrosive liquids. Causes burns to skin, eyes and mucous membranes.

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

CERT TORNADE AD MENTHE

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 0,0342 %

- Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
- * Information relating to Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (DIR-VOC)
- Regulation (EC) No. 648/2004 (Detergents regulation)
- The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
- * Regulation (EU) No. 2019/1021 of the European Parliament and of the Council of June 20, 2019 on persistent organic pollutants. (POPs): None of the components are submitted.
- * Regulation EU.n° 2019/1148: Annex I - PRECURSORS OF EXPLOSIVES SUBJECT TO RESTRICTIONS (Maximum limit value for the purpose of granting a license under article 5, paragraph 3): None components is submitted.
- * Regulation EU.n° 2019/1148: Annex II - PRECURSORS OF EXPLOSIVES SUBJECT TO A REPORT: None of the components are subject.
- * Regulations EU n° 273/2004 and EU: 111/2005 on drug precursors: None of the components are subject.
- Regulation (UE) n ° 528/2012 of the European Parliament and of the Council of 22 May 2012 and its adaptations
- Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals
- Product-type 4: Food and feed area
- Substance active biocide pure: L-(+)-lactic acid CAS: 79-33-4: 28.8% (m/m)
- Substance active biocide technique: L-(+)-lactic acid CAS: 79-33-4: 30.16% (m/m)

Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:

- 5% or more but less than 15%: anionic surfactants, nonionic surfactants
- Disinfectants
- perfumes
- L-MENTHOL

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - A chemical safety assessment has been carried out

- AMM N° FR-2023-0075-5-10

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1,01	28/11/2025		Compliance of section 2 with AMM
1	14/10/2025		

literature information ECHA

Data sources: Suppliers

Texts of the regulatory sentences

Aquatic Chronic 3 | Hazardous to the aquatic environment - Aquatic Chronic 3

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Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1	Skin sensitization - Category 1
STOT SE 3	STOT-single exposure - Category 3 (H335)

Training advice

- The product is intended for professional use.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
Complies with Annex II of the REACH regulation amended by REGULATION (EU) N°878/2020 of June 18, 2020
Complies with Regulation (EC) No. 1907/2006 (REACH) (amended by Regulation (EU) No. 453/2010)
Regulation (EU) No. 528/2012 on biocides

Use biocides safely. Always read the label and product information before use.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Observe technical data sheet.

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