

TORNADE AD COCO

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

1.1 - Product identifier

Trade name/designation TORNADE AD COCO

Chemical name

Product-type Mixture

Product code 20357

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

Relevant identified uses

- Concentrated product
- Detergent
- Descaler
- Disinfectant
- Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals
- Professional use of cleaners for cleaning and maintaining floors and surfaces

Uses advised against

- Concentrated product, do not use pure.
- Do not use for private purposes (household).
- Use biocides safely. Always read the label and product information before use.

1.3 - Details of the supplier of the safety data sheet

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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]

Met. Corr. 1	Corrosive to metals - Category 1
Skin Corr. 1	Skin corrosion, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

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

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Contains: phosphoric acid ... %, orthophosphoric acid ... % (CAS No.: 7664-38-2) | Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy- (CAS# 160875-66-1) (CAS No.: 160875-66-1) | didecyldimethylammonium chloride (CAS No.: 7173-51-5) | 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts (CAS No.: 147170-44-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P501	Dispose of contents/container to an appropriate recycling or disposal facility in accordance with local regulation.

EUH-phrases : None

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

Contains:

- less than 5%: amphoteric surfactants
- 5% or more but less than 15%: nonionic surfactants
- Disinfectants
- perfumes

2.3 - Other hazards

PBT-substance. - 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-substance. - 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 substance present at more than 0.1% is known to have endocrine disrupting properties in accordance with Regulation (EU) 2017/2100

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SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
phosphoric acid ... %, orthophosphoric acid ... % INCI: PHOSPHORIC ACID	CAS No. : 7664-38-2 Index No. : 015-011-00-6 EC No. : 231-633-2 REACH No. : 01-2119485924-24-XXXX	5 - 15	Acute Tox. 4 Oral - H302 Eye Dam. 1 - H318 Met. Corr. 1 - H290 Skin Corr. 1B - H314	Eye Irrit. 2 - H319 : 10<=%<25 Skin Corr. 1B - H314 : 25<=%<100 Skin Irrit. 2 - H315 : 10<=%<25
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omeg a.-hydroxy- (CAS# 160875-66-1)	CAS No. : 160875-66-1 Index No. : EC No. : 605-233-7 REACH No. : Polymère	5 - 15	Acute Tox. 4 Oral - H302 Eye Dam. 1 - H318	ATE oral 500
didecyldimethylammonium chloride INCI: DIDECYLDIMONIUM CHLORIDE	CAS No. : 7173-51-5 Index No. : 612-131-00-6 EC No. : 230-525-2 REACH No. : 01-2119945987-15-XXXX	5 - 10	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411 Eye Dam. 1 - H318 Skin Corr. 1B - H314	M-factor: 10
(2-methoxymethylethoxy)prop anol INCI: PPG-2 METHYL ETHER	CAS No. : 34590-94-8 Index No. : EC No. : 252-104-2 REACH No. : 01-2119450011-60-XXXX	5 - 10	Not Classified	Not applicable
sulfamic acid	CAS No. : 5329-14-6 Index No. : 016-026-00-0 EC No. : 226-218-8	1 - 5	Aquatic Chronic 3 - H412 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315	Not applicable
propan-2-ol, isopropyl alcohol, isopropanol INCI: ISOPROPYL ALCOHOL	CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7 REACH No. : 01-2119457558-25-XXXX	1 - 3	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 - H336	ATE oral 5840 ATE dermal 13900
1-Propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts INCI: COCAMIDOPROPYL BETAINE	CAS No. : 147170-44-3 Index No. : EC No. : REACH No. : 01-2119489410-39	1 - 3	Aquatic Chronic 3 - H412 Eye Dam. 1 - H318	Eye Dam. 1 - H318 : 10<=%<100 Eye Irrit. 2 - H319 : 4<=%<=10

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- 1 - In case of massive inhalation and symptoms, transport the victim outside and keep him/her at rest in a position where he/she can breathe comfortably
- 2 - Immediately call a doctor or the Poison Control Centre, specifying the product
- 3 - Ensure good air circulation. Loosen anything that might be tight, such as a collar, tie, belt, etc.
- 4 - In case of fainting, place the person in the lateral safety position (PLS)
- 5 - Give artificial respiration ONLY if the subject is not breathing (mouth to mouth)
- 6 - Carry out cardiopulmonary resuscitation (cardiac massage) if there is both respiratory arrest and absence of a pulse

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Following skin contact

- 1 - Remove the container and stop the flow of the causative agent
- 2 - Remove soiled or impregnated clothing immediately.
- 3 - Rinse thoroughly with water.
- 4 - If in doubt or if there are symptoms, seek medical advice or contact the poison control center immediately.
- 5 - Indicative rinsing duration:
 - - T > 30 min.: corrosive
 - - T > 15 to 20 min.: moderate to severe irritation and acute toxicity
 - - T > 5 min.: non-irritating or slightly irritating.

After eye contact

- 1 - Rinse the eye with plenty of warm water or physiological serum for at least 15 minutes.
- 2- Refer the subject to an ophthalmologist, especially if there is redness, pain or visual discomfort.
- 3 - Rinsing instructions: remove contact lenses if the victim is wearing them and if they can be easily removed, continue rinsing. Always run the water from the nose to the ear. Avoid splashing into the other eye. Hold the eye open with your fingers. Move the eye in all directions while rinsing.
- 4 - Once the rinsing is done, cover the eye with a compress while waiting for help.

After ingestion

- 1 - NEVER make the victim VOMITING or DRINKING
- 2 - Immediately call a doctor or the Poison Control Centre, specifying the product.
- 3 - Take the victim outside and keep him/her at rest in a position where he/she can breathe comfortably.
- 4 - If vomiting occurs, hold the head down to prevent vomit from entering the lungs.
- 5- In the event of ingestion, if the quantity is small (no more than one sip), rinse your mouth with water and consult a doctor.
- 6- In geval van accidente inname, bel een arts of het antigifcentrum dat het product specificeert om de wenselijkheid van controle en daaropvolgende behandeling in een ziekenhuisomgeving te beoordelen, indien nodig.

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

Symptoms and effects - Following inhalation

- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.

Symptoms and effects - Following skin contact

- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.

Symptoms and effects - After eye contact

- The most important known symptoms and effects are described on the label (see section 2.2) and / or in section 11.

Symptoms and effects - After ingestion

- 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

- Consult your doctor and show him this safety data sheet
- Seek advice from a poison control center or toxicologist.

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- Keep the packaging and/or instructions available

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- 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

Unsuitable extinguishing media

- 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

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

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- 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.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

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
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols

Advices on general occupational hygiene

- * Read the label or leaflet before use and follow the specific instructions for each use.

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- * Avoid contact with skin, eyes and clothing.
- *Do not eat, drink, smoke or snuff during use.
- * Wash your hands after each use
- *Wash soiled clothing before reuse.
- *The work clothes used must not be worn outside the work area.

7.2 - Conditions for safe storage, including any incompatibilities

- * Keep container tightly closed and in a well-ventilated place.
- * Store only in original packaging
- *Storage should be separate from bases.
- *Prohibit access to unauthorized persons.
- Storage temperature : 5-40°C
- *Shelf life: 36 months

7.3 - Specific end use(s)

- For more information on the use of the product, see the technical data sheet and the label.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

IOELV TWA mg/m ³ (UE)	1 mg/m ³
IOELV STEL mg/m ³ (UE)	2 mg/m ³

(2-methoxymethylethoxy)propanol (34590-94-8)

IOELV TWA mg/m ³ (UE)	308 mg/m ³ Skin
IOELV TWA ppm (UE)	50 ppm Skin

DNEL / PNEC

didecyltrimethylammonium chloride (7173-51-5)

Type	Value	User	Effect
PNEC aquatic, freshwater	0,0011 mg/l		
PNEC aquatic, marine water	0,00011 mg/l		
PNEC aquatic, intermittent release	0,00021 mg/l		
PNEC sediment, freshwater	61,86 mg/kg		
PNEC sediment, marine water	6,186 mg/kg		
PNEC soil	1,4 mg/kg		
PNEC sewage treatment plant (STP)	0,14 mg/l		

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Type	Value	User	Effect
DNEL short-term oral (acute)	51 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	26 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	1000 mg/m ³	Workers	Systemic
DNEL acute inhalative	178 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	89 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	500 mg/m ³	Workers	Systemic
DNEL long-term dermal	888 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	319 mg/kg bw/day	Consumers	Systemic

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phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	0,1 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	2 mg/m ³	Workers	Local
DNEL long-term inhalative	10,7 mg/m ³	Workers	Systemic
DNEL long-term inhalative	4,57 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	1 mg/m ³	Workers	Local
DNEL long-term inhalative	0,36 mg/m ³	Consumers	Local
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts (147170-44-3)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	7,5 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	44 mg/m ³	Workers	Systemic
DNEL long-term dermal	12,5 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	7,5 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0,0135 mg/l		
PNEC aquatic, marine water	0,00135 mg/l		
PNEC sediment, freshwater	1 mg/kg		
PNEC sediment, marine water	0,1 mg/kg		
PNEC soil	0,8 mg/kg		
PNEC sewage treatment plant (STP)	3000 mg/l		
sulfamic acid (5329-14-6)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	5 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	70,5 mg/m ³	Workers	Systemic
DNEL long-term inhalative	17,4 mg/m ³	Consumers	Systemic
DNEL long-term dermal	10 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	5 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	1,8 mg/l		
PNEC aquatic, marine water	0,18 mg/l		
PNEC aquatic, intermittent release	0,48 mg/l		
PNEC sediment, freshwater	8,36 mg/kg		
PNEC sediment, marine water	0,84 mg/kg		
PNEC soil	5 mg/kg		
PNEC sewage treatment plant (STP)	20 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- * Assurer une ventilation suffisante du lieu de stockage.
- * Maintain premises and workstations in perfect clean condition, clean them frequently
- * Store personal protective equipment in a clean place away from the work area.
- * Use clean and properly maintained personal protective equipment. Check 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.



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- Protective clothing



- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

- Barrier creams are not substitutes for body protection.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Clear liquid
<u>Colour</u>	violet	<u>Odour</u>	Coconut
Odour threshold	No data available		
pH	0,5 < V < 1,5 pH-meter Mettler Toledo Five Easy, 20°C		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	> 62 °C Reference: p17- SYMPOSIUM SERIES No. 150 - FLASH POINTS OF AQUEOUS SOLUTIONS OF FLAMMABLE SOLVENTS - G.R. Astbury, J. Bugand-Bugandet, E. Grollet and K.M. Stell Avecia Limited, P.O. Box 42, Blackley, Manchester M9 8ZS Current address: Health & Safety Laboratory, Harpur Hill, Buxton, Derbyshire, SK17 9JN. Albi School of Mines, Campus Jarlard, 81013 Albi, Cedex 09, France		
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	1,06 < V < 1,08 @ 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		

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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	7,007 %
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.

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.

10.4 - Conditions to avoid

- Keep only in the original container in a cool, well-ventilated place away from alkalis.
- Do not mix with other products

10.5 - Incompatible materials

- Primers
- Don't mix with another biocidal products

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
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LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

Toxicity : Substances

didecyldimethylammonium chloride (7173-51-5)	
LD50 oral (rat)	238 mg/kg
LD50 dermal (rabbit)	3342 mg/kg
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LD50 oral (rat)	5840 mg/kg OCDE 401
LD50 dermal (rabbit)	13900 mg/kg OCDE 402
LC50 inhalation vapours (rat)	> 25 mg/l / 6h OCDE 403
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
LD50 oral (rat)	300 mg/kg < V < 2000 mg/kg
LD50 dermal (rabbit)	2740 mg/kg Fiche toxicologique INRS N° 37
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts (147170-44-3)	
LD50 oral (rat)	> 5000 mg/kg OCDE 401
LD50 dermal (rat)	> 2000 mg/kg OCDE 402
sulfamic acid (5329-14-6)	
LD50 oral (rat)	> 1450 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy- (CAS# 160875-66-1) (160875-66-1)	
LD50 oral (rat)	300 mg/kg < V < 2000 mg/kg OCDE 403

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

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

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

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Aspiration hazard - Not classified

11.2 - Information on other hazards

- Interaction effects of substances in the mixture: No data on interaction effects of
- The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

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
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

Toxicity : Substances

didecyldimethylammonium chloride (7173-51-5)	
EC50 48 hr crustacea	0,03 mg/l (Daphnia magna) (OECD 202) S 452
LC50 96 hr fish	0,49 mg/l (Brachydanio rerio) (OECD 203) S 451
ErC50 algae	0,06 mg/l (Selenastrum capricornutum) (OECD 201) S 3227
NOEC chronic crustacea	0,021 mg/l (Daphnia magna) (OECD 211) S 566
NOEC chronic algae	0,013 mg/l 72h; (Pseudokirchneriella subcapitata) (OECD 201) S 3227
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
EC50 48 hr crustacea	> 100 mg/l (Daphnia magna) OCDE 202
LC50 96 hr fish	> 100 mg/l OCDE 203 (Leuciscus idus m.)

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ErC50 algae	> 100 mg/l (Scenedesmus subspicatus) 72 h
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
EC50 48 hr crustacea	> 100 mg/l (Daphnia magna) (Grande daphnie) Essai en statique; OCDE 202
LC50 96 hr fish	3 mg/l < V < 3,25 mg/l (Lepomis macrochirus)
ErC50 algae	> 100 mg/l (Desmodesmus subspicatus(algues vertes)) 72 h Essai en statique; Fin: Taux de croissance; OCDE 201
NOEC chronic algae	100 mg/l (Desmodesmus subspicatus(algues vertes)) 72 h Essai en statique; Fin: Taux de croissance; OCDE 201
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts (147170-44-3)	
EC50 48 hr crustacea	1 mg/l < V < 10 mg/l Daphnia magna (Ligne dir. 202 de l'OCDE, 1ère partie)
LC50 96 hr fish	1 mg/l < V < 10 mg/l Pimephales promelas (Screening (sur le modèle de OECD 203))
ErC50 algae	1 mg/l < V < 10 mg/l Desmodesmus subspicatus (Ligne directrice 201 de l'OCDE)
NOEC chronic fish	0,1 mg/l < V < 1 mg/l Oncorhynchus mykiss (Essai n°210 de l'OCDE)
NOEC chronic crustacea	0,1 mg/l < V < 1 mg/l Daphnia magna (Ligne directrice 211 de l'OCDE)
sulfamic acid (5329-14-6)	
EC50 48 hr crustacea	71,6 mg/l
LC50 96 hr fish	70,3 mg/l
ErC50 algae	48 mg/l
NOEC chronic fish	0,025 mg/l Jordanella floridae
NOEC chronic crustacea	0,15 mg/l Tantytarsus dissimilis
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy- (CAS# 160875-66-1) (160875-66-1)	
EC50 48 hr crustacea	10 mg/l < V < 100 mg/l

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ErC50 other aquatic plants	10 mg/l < V < 100 mg/l Scenedesmus subspicatus; 72h
NOEC chronic fish	> 1 mg/l

- Very toxic to aquatic life with long lasting effects.

12.2 - Persistence and degradability

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.

12.3 - Bioaccumulative potential

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

- No indication of bioaccumulation potential.

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

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods

- 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- Waste management is done without endangering human health and without harming the environment, and in particular without creating a risk for water, air, soil, fauna or 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.

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- 5- Soiled packaging: Completely empty the container. Keep the label on the container. Give to a certified disposal contractor

- Waste code for the product: 16 03 05*

- Waste code for packaging: 15 01 10* (Packaging containing residues of or contaminated by dangerous substances)

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

<u>UN proper shipping name (ADR)</u>	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, phosphoric acid ... %, orthophosphoric acid ... %)
<u>UN proper shipping name (RID)</u>	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, phosphoric acid ... %, orthophosphoric acid ... %)
<u>UN proper shipping name (IMDG)</u>	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, phosphoric acid ... %, orthophosphoric acid ... %)

14.3 - Transport hazard class(es)

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ADR Transport hazard class(es) : 8

ADR Classification code: : C9

Pictograms



Transport hazard class(es) (RID) : 8

Pictograms



Transport hazard class(es) (IMDG) : 8

Pictograms



14.4 - Packing group

Packing group : II

Packing group (RID) : II

Packing group (IMDG) : II

14.5 - Environmental hazards

Environmental hazards : Yes.

Marine pollutant : Hazardous to the aquatic environment - Aquatic Acute 1

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	C9
<u>ADR Special provisions</u>	:	274
<u>ADR Limited quantity (LQ)</u>	:	1L
<u>ADR Excepted quantities</u>	:	E2
<u>ADR Packing instructions</u>	:	P001 IBC02
<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	MP15
<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>	:	2
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	
<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>	:	274
<u>Limited quantity (LQ)</u>	:	1 L
<u>Excepted quantities</u>	:	E2
<u>Packing instructions</u>	:	P001
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC02
<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 B
<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

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Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 7,007 %

- * 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)
- * The surfactants contained in this mixture comply with the biodegradability criteria as defined in Regulation (EC) No 648/2004 on detergents.
- * 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 (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 and its adaptations
- **Product subject to the disinfectant Certibiocide (product TP2 and/or TP4) in compliance with the decree of December 3, 2024 which modifies the decree of October 9, 2013 relating to the conditions of exercise of the activity of professional user and distributor of certain types of biocidal products applicable from January 1, 2026.
- Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals
- / Biocidal active substance Didecyltrimethylammonium chloride (DDAC) CAS no. 7173-51-5: 5% (m/m)

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

Contains:

- less than 5%: amphoteric surfactants
- 5% or more but less than 15%: nonionic surfactants
- Disinfectants
- perfumes

Website <https://obioseed.com/>

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	03/06/2025		

literature information ECHA

TORNADE AD COCO

FLASH POINT DETERMINATION OF BINARY MIXTURES OF ALCOHOLS, KETONES AND WATER - P.J. Martínez, E. Rus and J.M. Compañía - Departamento de Ingeniería Química. Facultad de Ciencias - Universidad de Málaga. 29071 Málaga (SPAIN)

Data sources: Supplier

Texts of the regulatory sentences

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals - Category 1
Not Classified	Not classified
Skin Corr. 1	Skin corrosion, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Irritation, Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)

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