SAFETY DATA SHEET

according to Regulation (EC) N° 1907/2006

ANABAC CITRUS

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

1.1. Product identifier

Sales reference: Anabac® Citrus

Product code: 320300

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

Fragrance in soft gelatin capsule to be used as an autoclave deodorant during sterilization processes.

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone numbers

For European countries, please refer to ECHA website update:

https://echa.europa.eu/fr/support/helpdesks/
https://poisoncentres.echa.europa.eu/fr/appointed-bodies
https://echa.europa.eu/documents/10162/2322249/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d?t=1628515444598

For the rest of the world, refer to the WHO directory of poison information centres:
https://apps.who.int/poisoncentres/PoisonCentres_201902.pdf

List of Emergency numbers worldwide.

Country	Phone number	Website
Australia	+61 2 9845 3969 / 131126	
Austria	+43 1 406 43 43	https://goeg.at/Vergiftungsinformation
Belgium	+32 70 245 245	https://www.poisoncentre.be/
Bulgaria	+359 2 9154 233	https://www.moew.government.bg/bg/prevantivna-dejnost/himichni-vestestva/klasifikaciya-clp/nacionalen-centur-po-toksikologiya/
Canada	1 800 268 9017 / 911	https://infopoison.ca/fr/
China	+86 10 831 32 045 / 120	
Croatia	+3851 2348 342	https://www.imi.hr/hr/jedinica/centar-za-kontrolu-otrovanja/
Cyprus	1401	http://www.mlsi.gov.cy/mlsi/dli/dliup.nsf/All/44E02FF962E75D0DC2257DDA00288E83?OpenDocument
Czech Republic	+420 224 919 293 / +420 224 915 402	https://www.cenia.cz/odborna-podpora/reach/bezpecnostni-listy/<
Denmark	+45 8212 1212	https://www.bispebjerghospital.dk/giftlinjen/Sider/default.aspx
Estonia	16662	https://www.terviseamet.ee/en/chemical-and-product-safety/data-for-safety-data-sheet
Finland	800 147 111 / 09 471 977	https://www.hus.fi/en/medical-care/medical-services/Poison%20Information%20Centre/Pages/default.aspx
France	01 45 42 59 59	https://reach-info.ineris.fr/Numero_orfila
Germany	+49 30 3068 6711 / 112	https://www.reach-clp-biozid-helpdesk.de/DE/REACH/Sicherheitsdatenblatt/Sicherheitsdatenblatt-EN/Emergency-Telephone-number.html
Greece	+30 21 07 79 37 77	https://echa.europa.eu/documents/10162/23019181/poison_info_centre_en.pdf/58b0f281-a6f8-4362-a0b9-faad57c7fcff
Hungary	+36 80 201 199	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es-kompetens-hatosagi-fo/egeszsegugyi-toxikologiai-tajekoztato-szolgalat

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Country	Phone number	Website
Iceland	+354 543 22 22 / +354 543 1000 / 112	http://www.landspitali.is/?PageID=14556
India	+91 112 659 36 77 / 112	https://www.secourisme.net/spip.php?breve443
Ireland	+353 1 809 2166 / 01 809 2166 (8am - 10pm) / 01 809 2566 (24/7)	https://www.poisons.ie/
Israel	+972 485 42 725 / 04-7771900 (24/7) / 101	https://www.rambam.org.il/en/departmentsandclinics/laboratories-division/clinical-pharmacology-and-toxicology/national-center-for-the-treatment-of-poisoning/
Italy	+39 06 301 54 492 / +39 06 305 4343 / +39 06 499 78 000 / 118	https://preparatipericolosi.iss.it/cav.aspx
Japan	+81 72 727 2499 / +81 29 852 9999 / 119	https://mediv8.com/poisons-information/japan-poison-information-center-head-office/
Latvia	+371 670 42473	https://www.meteo.lv/en/lapas/environment/chemical-substances-/reach/reach_en?&id=1483&nid=410
Lithuania	+370 85 236 2052	http://www.apsinuodijau.lt/
Luxembourg	+352 8002 5500	https://www.centreantipoisons.be/entreprises/english/how-declare/declarations-grand-duchy-Luxembourg
Malta	+356 234 41 111	https://deputyprimeminister.gov.mt/en/Pages/Contact-Us.aspx
Norway	+47 22 59 13 00	https://helsenorge.no/Giftinformasjon
Poland	+48 (12) 411 99 99	
Portugal	+351 800 250 250	https://www.inem.pt/category/servicos/centro-de-informacao-antivenenos/
Romania	+40 213 183 606	
Russia	+7 495 628 1687 / 112 / 103	https://www.petitfute.com/v51044-moscou/c1172-pense-fute-services/c1136-sante/c876-urgence/
Saudi Arabia	800 442 628 1687 / 937	
Slovakia	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php?adr=safetydata
Slovenia	+386 1 522 1293 / +386 1 434 7645 / 112	

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Country	Phone number	Website
South Africa	+27 086 155 5777 / +27 824 910 160 / 999	
South Korea	+82 (0)42 605 7030 / +82 (0)43 830 4000 / (+82-)119	https://nics.me.go.kr/ https://nics.me.go.kr/eng/main.do
Spain	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16
Sweden	+46 (0)10 456 6700 / +46 (0)10 456 6750 / 112	
Switzerland	+41 44 251 51 51 / 145 (24/24)	https://www.vaudfamille.ch/N241017/tox-info-suisse-urgence-145-24h24h.html
Thailand	+66 (0)220 11084-6 / +66 2 419 9912 / 191 / 1669	https://ogocare.com/1669-and-191-emergency-numbers-to-call-in-thailand/
The Netherlands	+31 30 274 88 88	https://www.umcutrecht.nl/nl/Subsites-nl/Nationaal-Vergiftigingen-Informatie-Centrum-(NVIC)/Productinformatie/Informationsheet-product-notification
Turkey	+90 0312 433 70 07 / 112 / **114**	https://www.istanbulaccueil.net/les-numeros-durgence/
United Arab Emirates	800 424 / 998	
United Kingdom	+44 844 892 0111 / 999 / 111	https://www.toxbase.org/
United States of America	+1 800 222 122 / 911	https://www.poison.org/

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SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) N° 1272/2008.
Not a hazardous substance or mixture

2.2. Label elements

Labelling according to regulation (EC) N° 1272/2008.

Additional labelling :
EUH 208 : Contains (1-methyl-2-(5-methylhex-4-en-2-yl)cyclopropyl)methanol, 3,7-dimethyl-6-octen-1-al (=citronellal), 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol), 2.4-dimethylcyclohex-3-ene-1-carbaldehyde. May produce an allergic reaction.

EUH 210 : Safety data sheet available on request.

P102 : Keep out of reach of children.

2.3. Other hazards

Hazards not otherwise classified : none.
This substance/mixture does not contain any ingredients considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATIONS ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous components
(classification according to regulation (EC) N° 1272/2008 [CLP])

Chemical name	CAS_No EC_No Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (Percent by weight)
decanal	112-31-2 203-957-4	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	>= 2,5 - < 5

	01-2119967771-26		
3,7-dimethyl-2(3),6-nonadienonitrile	61792-11-8 263-214-5 01-2119967769-11	Aquatic Chronic 2, H411	>= 1 - < 2.5
1-Isopropyl-4-methylcyclohexa-1,4-diene (= gamma terpinene)	99-85-4 202-794-6	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304	>= 0.1 - < 1
2-oxabicyclo(2.2.2) octane, 1,3,3-trimethyl- (= Eucalyptol)	470-82-6 207-431-5 01-2119967772-24	Flam. Liq. 3, H226 Skin Sens. 1B, H317'	>= 0,1 - < 1
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 943-728-2 01-2119982384-28	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	>= 0,25 - < 1
3,7-dimethyl-6-octen-1-al (= citronellal)	106-23-0 203-376-6 01-2119474900-37	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317'	>= 0,1 - < 1
(1-methyl-2-(5-methylhex-4-en-2-yl)cyclopropyl)methanol	1655500-83-6 942-597-9 01-2120094067-52	Acute Tox 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317' Aquatic Chronic 2, H411	>= 0,1 - < 0,25

For the full text of the H-statements mentioned in this Section see Section 16.

SECTION 4. FIRST AIDS MEASURES

4.1. Description of first aid measures

General advice : Do not leave victim unattended.

If inhaled : if the victim is unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : take off contaminated clothing and shoes immediately.
If on skin, rinse well with water.

In case of eye contact : remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.

If swallowed : keep respiratory tract clear.
Don't give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms : no data available.
Risks : no data available.

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

Treatment : no data available.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media :
-Dry chemical
-Alcohol-resistant foam
-Carbon dioxide (CO2)
-Water spray.

Unsuitable extinguishing media :
-High-volume water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : no data available.

5.3. Advice for firefighters

Special protective equipment for firefighters :
Wear self-contained breathing apparatus for firefighting, if necessary.
Additional information: Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : no data available.

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6.2. Environmental precautions

Environmental precautions: in case of pollution of waterways, lakes or sewers, inform the competent authorities in accordance with local regulations.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up: wipe up with absorbent material (e.g. cloth,fleece).
Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Not applicable

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advices on safe handling : for personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion: normal measures for preventive fire protection.
Temperature class : no data available.
Fire class : no data available.
Dust explosion class : no data available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: electrical installations and equipment must comply with the technological safety standards.
Additional information on storage conditions: Ambient / 10-30°C (50-85°F).
Dry, well ventilated, preferably full, hermetically sealed.
Advice on common storage: Protect against light and humidity.
Storage class (Germany): no data available.
Other information : no decomposition if the product is stored and applied as directed.

7.3. Specific end use(s)

Specific use(s): no data available.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Does not contain substances with occupational exposure limit values.

DNEL 112-31-2 :

End use: Workers
Route of exposure: Inhalation
Potential health effects: Long term - systemic effects
Value: 24.86 mg/m3

End use: Workers
Route of Entry: Inhalation
Potential Health Effects: Acute - systemic effects
Value: 49.71 mg/m3

End use: Workers
Route of Entry: Inhalation
Potential Health Effects: Long term - local effects
Value: 62.14 mg/m3

End use: Workers
Route of Entry: Inhalation
Potential health effects: Acute - local effects
Value: 124.3 mg/m3

End use: Workers
Route of Entry: Dermal
Potential health effects: Long term - systemic effects
Value: 7.05 mg/kg bw/day

End Use: Workers
Route of Entry: Dermal
Potential Health Effects: Acute - systemic effects
Value: 14.1 mg/kg bw/day

End Use: Workers
Route of Entry: Dermal
Potential Health Effects: Long term - local effects
Value: 17.62 mg/cm2

End Use: Workers
Route of Entry: Dermal

Potential health effects: Acute - local effects
Value: 35.24 mg/cm2

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Long term - systemic effects
Value: 6.13 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Acute - systemic effects
Value: 12.26 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Long term - local effects
Value: 15.32 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Acute - local effects
Value: 30.65 mg/m3

End use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Long term - systemic effects
Value: 3.52 mg/kg bw/day

End Use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Acute - systemic effects
Value: 7.05 mg/kg bw/day

End Use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Long term - local effects
Value: 8.81 mg/cm2

End Use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Acute - local effects
Value: 17.62 mg/cm2

End use: Consumer use
Route of Entry: Oral

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Potential Health Effects: Long term - systemic effects
Value: 3.52 mg/kg bw/day

61792-11-8

End Use: Workers
Route of Entry: Inhalation
Potential Health Effects: Long term - systemic effects
Value: 5.29 mg/m3

End Use: Workers
Route of Entry: Inhalation
Potential Health Effects: Acute - systemic effects
Value: 10.58 mg/m3

End use: Workers
Route of Entry: Inhalation
Potential Health Effects: Long term - local effects
Value: 13.22 mg/m3

End use: Workers
Route of Entry: Inhalation
Potential Health Effects: Acute - local effects
Value: 26.45 mg/m3

End use: Workers
Route of Entry: Dermal
Potential Health Effects: Long term - systemic effects
Value: 1.5 mg/kg bw/day

End use: Workers
Route of Entry: Dermal
Potential Health Effects: Acute - systemic effects
Value: 3 mg/kg bw/day

End Use: Workers
Route of Entry: Dermal
Potential Health Effects: Long term - local effects
Value: 3.75 mg/cm2

End Use: Workers
Route of Entry: Dermal
Potential health effects: Acute - local effects
Value: 7.5 mg/cm2

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End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Long term - systemic effects
Value: 1.3 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Acute - systemic effects
Value: 2.61 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Long term - local effects
Value: 3.26 mg/m3

End use: Consumer use
Route of Entry: Inhalation
Potential Health Effects: Acute - local effects
Value: 6.52 mg/m3

End use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Long term - systemic effects
Value: 0.75 mg/kg bw/day

End Use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Acute - local effects
Value: 1.5 mg/kg bw/day

End use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Long term - local effects
Value: 1.88 mg/cm2

End Use: Consumer use
Route of Entry: Dermal
Potential Health Effects: Dermal - local effects
Value: 3.75 mg/cm2

End use: Consumer use
Route of Entry: Oral
Potential Health Effects: Long term - systemic effects
Value: 0.75 mg/kg bw/day

PNEC

112-31-2: Freshwater
Value: 0.00117 mg/l

Freshwater sediment
Value: 0.097 mg/kg dry weight (d.w.)

Seawater
Value: 0.000117 mg/l

Marine sediment
Value: 0.00972 mg/kg dry weight (d.w.)

Sewage treatment plant
Value: 3.16 mg/l

Soil
Value: 0.019 mg/kg dry weight (d.w.)

61792-11-8: Fresh water
Value: 0.0024 mg/l

Freshwater sediment
Value: 0.248 mg/kg dry weight (d.w.)

Seawater
Value: 0.00024 mg/l

Marine sediment
Value: 0.025 mg/kg dry weight (d.w.)

Sewage treatment plant
Value: 0.9 mg/l

Soil
Value: 0.05 mg/kg dry weight (d.w.)

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Use in well ventilated areas.

Hand protection

Use gloves when handling substances in open systems. Inspect gloves prior to use. Train operators for proper use.

If accidental exposure is expected : (work without direct contact to substance) use gloves tested according to EN 16523-1, 1 breakthrough times at least 10 minutes, tested for the chemicals listed in chapter 3 of this SDS. Change gloves frequently.

If direct skin contact is expected: use gloves tested according to EN 16523-1, tested for the chemicals listed in chapter 3 of this SDS. Permeation time must exceed contact time.

Eye protection

Use tightly fitting safety glasses according to EN 166.

Skin and body protection

Protective clothing: use working clothes that cover arms and legs.

Hygiene measures and general protective measures

General industrial hygiene practices. Do not drink, eat or smoke while working. Wash and dry hands after finishing work.

Exposure assessment : exposure is dependent on the product being handled, the potential for chemical release and any resulting airborne concentrations or dermal contact. As handling and release scenarios vary and differ from one workplace to another, it is recommended that the potential for exposure be assessed prior to the product's use or introduction. Exposure assessments should be performed by an occupational hygienist or industrial hygienist or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the effectiveness of any ventilation and the need for additional respiratory protection. PPE is always the last resort to avoid exposure. In any case, technical and organisational measures have to be explored and used before PPE is selected. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained and used to PPE handling.

In case of pollution of waterways, lakes or sewers, inform the competent authorities according to local regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid in a gelatin capsule.
Colour of liquid: colorless to very slightly yellow.
Taste: not determined.
Odour: citrus-like, green, fruity.
Odour threshold: not applicable.
Flash point: 92 °C. Method: Grabner miniflash closed cup.
Explosive limit, lower: not determined.
Explosive limit, upper: not determined.
Flammability (solid, gas): not applicable.
Oxidizing properties: no data available.
Auto-ignition temperature: not determined.
Decomposition temperature: not available.
pH: not determined.
Melting point: not determined.
Boiling point: not determined.
Vapour pressure: 0.0862 hPa at 20 °C Calculated (99.9%).
Density: 1000.19 kg/m3 at 20°C.
Apparent density: not applicable.
Water solubility: soluble gelatin capsule (wet heat).
Partition coefficient: noctanol/water: not applicable.
Viscosity, kinematic: Not available.
Relative vapour density: no data available.
Evaporation rate: no data available.
Explosive properties: no data available.

9.2. Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

None

10.2. Chemical stability

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This product is chemically stable.

10.3. Possibility of hazardous reactions

Hazardous reactions: stable under recommended storage conditions. No hazards to be specially mentioned.

10.4. Conditions to avoid

Protect from humidity.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

Thermal decomposition: no data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Sub-section	comment	LD	Species
Acute oral toxicity	Estimated acute toxicity Dose: > 2000 mg/kg Method: Calculation method		
Acute oral toxicity	decanal	LD50: > 33 320 mg/kg	Species: Rat
	3,7-dimethyl-2(3),6-nonadienonitrile	LD50: 2 600 mg/kg	Species: Rat
	3,7-dimethyl-6-octen-1-al (= citronellal)	LD50: 2 420 mg/kg	Species: Rat
	(1-methyl-2-(5-methylhex-4-en-2-yl)cyclopropyl)methanol	LD50: > 2 000 mg/kg	Species: Rat
	1-Isopropyl-4-methylcyclohexa-1,4-diene (= gamma terpinene)	LD50: 3 650 mg/kg	Species: Rat

	2-oxabicyclo(2.2.2) octane, 1,3,3-trimethyl- (= Eucalyptol)	LD50: 2 480 mg/kg	Species: Rat
Acute inhalation toxicity	Estimated acute toxicity Exposure duration: 4 h Dose: > 20,00 mg/l Method: Calculation method		
Acute dermal toxicity	Estimated acute toxicity Dose: > 2000 mg/kg Method: Calculation method		
Acute dermal toxicity	Estimated acute toxicity Dose: > 2000 mg/kg Method: Calculation method		
Acute dermal toxicity	3,7-dimethyl-2(3),6-nonadienonitrile	LD50: > 5 000 mg/kg	Species: Rabbit
	decanal	LD50: 4 173 mg/kg	Species: Rabbit
	2,4-dimethylcyclohex-3-ene-1-carbaldehyde	LD50: 5 000 mg/kg	Species: Rabbit
	(1-methyl-2-(5-methylhex-4-en-2-yl)cyclopropyl)methanol	LD50: > 1 000 mg/kg	Species: Rat
Acute toxicity (other routes of administration)	No data is available on the product itself.		
Skin corrosion/skin irritation	Skin irritation - No data is available on the product itself.		
Serious eye damage/eye irritation	Eye irritation - No data is available on the product itself.		
Respiratory or skin sensitisation	No data is available on the product itself.		
Germ-cell mutagenicity	No data is available on the product itself.		
Carcinogenicity	No data is available on the product itself.		
Reproductive toxicity	No data is available on the product itself.		
Target Organ Systemic Toxicant - Single exposure	No data is available on the product itself.		
Target Organ Systemic Toxicant - Repeated exposure	No data is available on the product itself.		
Aspiration hazard	Aspiration toxicity - No data is available on the product itself.		

Phototoxicity	No data is available on the product itself.
Additional information	No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Toxicity to fish: no data available.
Toxicity to Daphnia and other aquatic invertebrates: no data available.
Toxicity to algae: no data available.

M-factor 3,7-dimethyl-2(3),6-nonadienonitrile : 1
M-factor 2,4-dimethylcyclohex-3-ene-1-carbaldehyde: 1
Toxicity to bacteria : no data available.

Toxicity to fish (Chronic Toxicity) : no data available.

Toxicity to Daphnia and other aquatic invertebrates (Chronic Toxicity) : no data available.

Acute toxicity to the aquatic environment: no data available.

Chronic toxicity to the aquatic environment: no data available.

Toxicological data on soils: no data available.

Other important organisms for the environment: no data available.

12.2. Persistence et degradability

Biodegradability: no data available.

12.3. Bioaccumulative potential

Bioaccumulation: no data available.

12.4. Mobility in soil

Mobility: the product is soluble in water. Very mobile in soils.

Physico-chemical elimination: no data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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12.6. Other adverse effects

Biochemical Oxygen Demand (BOD): no data available
Dissolved Organic Carbon (DOC): no data available
Chemical Oxygen Demand (COD): no data available
Adsorbed Organic bound halogens (AOX): no data available
Additional ecological information: no data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number
N/A

14.2. UN proper shipping name
N/A

14.3. Transport hazard class(es)
ADR/RID/AND : Non-dangerous goods.
IATA/ICAO : Non-dangerous goods.
IMDG : Non-dangerous goods.

14.4. Packing group
N/A

14.5. Environmental hazards
N/A

14.6. Special precautions for user
N/A

14.7. Transport in bulk according to Annex II of Marpol convention and the IBC Code
N/A

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SECTION 15. REGULATORY INFORMATION

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

Regulation on major accident hazards (regulation on classified installations): not applicable.

Water contamination class (Germany): WGK 2 hazardous for water. Classification according to AwSV, Annex 1 (5.2).

15.2. Chemical safety assessment

A chemical safety assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

H226 : Flammable liquid and vapour.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H361 : Suspected of damaging fertility or the unborn child.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
AICS – Australian Inventory of Chemical Substances;
ASTM – American Society for the Testing of Materials;
b.w. – Body Weight;
CLP – Classification Labelling Packaging Regulation;
CMR – Carcinogen, Mutagen or Reproductive Toxicant;
DIN – Standard of the German Institute for Standardisation;
DNEL – Derived No Effect Level;
DSL – Domestic Substances List (Canada);
ECHA – European CHemicals Agency;
EC Number – European Community Number;
ECx – Concentration associated with x% response;
ELx – Loading rate associated with x% response;
EmS – Emergency Schedule;

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ENCS – Existing and New Chemical Substances (Japan);
ErCx – Concentration associated with x% growth rate response;
GHS – Globally Harmonized System;
GLP – Good Laboratory Practice;
IARC – International Agency for Research on Cancer;
IATA – International Air Transport Association;
IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50 – Half maximal Inhibitory Concentration;
ICAO – International Civil Aviation Organization (« OACI » in French);
IECSC – Inventory of Existing Chemical Substances in China;
IMDG – International Maritime Dangerous Goods;
IMO – International Maritime Organization;
ISHL – Industrial Safety and Health Law (Japan);
ISO – International Organisation for Standardization;
KECI – Korea Existing Chemicals Inventory;
LC50 – Lethal Concentration to 50% of a test population,
LD50 – Lethal Dose to 50% of a test population (median lethal dose);
MARPOL – International Convention for the Prevention of Pollution from Ships;
n.o.s – Not Otherwise Specified;
NO(A)EC – No Observed (Adverse) Effect Concentration;
NO(A)EL – No Observed (Adverse) Effect Level;
NOELR – No Observable Effect Loading Rate;
NZIoC – New-Zealand Inventory of Chemicals;
OECD – Organization for Economic Co-operation and Development;;
OPPTS – Office of Chemical Safety and Pollution Prevention;
PBT – Persistent, Bioaccumulative and Toxic substance;
PNEC – Predictive No Effect Concentration;
PICCS – Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR – (Quantitative) Structure Activity Relationship;
REACH – Regulation (EC) N° 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID – Regulation concerning the International Carriage of Dangerous Goods by Rail;
SADT – Self-Accelerating Decomposition Temperature;
SDS – Safety Data Sheet;
SVHC – Substance of Very High Concern;
STEL – Short Term Exposure Limit;
TCSI – Taiwan Chemical Substance Inventory;
TMP – Table of Professional Diseases (« Tableau des Maladies Professionnelles » in French) ;
TRGS – Technical Rule for Hazardous Substances;
TSCA – Toxic Substances Control Act (USA);
TWA – Time Weighted Averages;
UFI – Unique Formula Identifier;
UN – United Nations;
VLE – Exposure Limit Value (ELV) (« Valeur Limite d'Exposition » in French);
VME – Exposure Average Value (« Valeur Moyenne d'Exposition » in French);
vPvB – Very Persistent and Very Bioaccumulative;
WGK – Water Hazard Class (« Wassergefährdungsklasse » in German).

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