



BAEROSTAB NT 340 RF

Version 4.1

Revision Date 23.01.2020

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

1.1 Product identifier

Trade name : BAEROSTAB NT 340 RF

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

Use of the Substance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer

1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Kimya San. ve Tic. Ltd. Sti
Akhisar OSB
5.Cadde No:26-28
Akhisar - MANISA - Turkiye
Telephone : +90-236-4448223
Telefax : +90-236-4040707
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

Phone: +44(0)1235 239670; Phone: +90 444 8 223

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
Response:



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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
Collect spillage.

P391

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
553-72-0 zinc dibenzoate

2.3 Other hazards

Combustible material

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Contains organic solvents.

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Calcium dibenzoate	2090-05-3 218-235-4 01-2120769512-51-0000	Eye Irrit. 2; H319	< 10
zinc dibenzoate	553-72-0 209-047-3 01-2120053849-43-0003	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 10
Dodecan-1-ol	112-53-8 203-982-0 01-2119485976-15-xxxx	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 10
Tetradecanol	112-72-1 204-000-3 01-2119485910-33-xxxx	Eye Irrit. 2; H319 Aquatic Chronic 1; H410	< 10

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|--|
| General advice | : Remove and wash contaminated clothing before re-use. |
| If inhaled | : Move to fresh air. |
| In case of skin contact | : Wash off with soap and plenty of water.
Take off contaminated clothing and shoes immediately. |
| In case of eye contact | : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Consult a physician. |
| If swallowed | : Call a physician immediately.
Show this safety data sheet to the doctor in attendance. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|-----------------------------|
| Symptoms | : No information available. |
|----------|-----------------------------|

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|--|
| Suitable extinguishing media | : Water spray
Foam
Carbon dioxide (CO ₂)
Dry chemical
Sand |
|------------------------------|--|

- | | |
|--------------------------------|-------------------------|
| Unsuitable extinguishing media | : High volume water jet |
|--------------------------------|-------------------------|

5.2 Special hazards arising from the substance or mixture

- | | |
|--------------------------------------|---------------------------|
| Specific hazards during firefighting | : Smoke and fumes, toxic. |
|--------------------------------------|---------------------------|

5.3 Advice for firefighters

- | | |
|---|--|
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |
|---|--|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



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Personal precautions : Remove all sources of ignition.
Ensure adequate ventilation.
Avoid contact with skin and eyes.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Provide sufficient air exchange and/or exhaust in work rooms.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.
Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions : Handle in accordance with good industrial hygiene and safety practice.

German storage class : 10 Combustible liquids

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Dodecan-1-ol	112-53-8	air 8 h	20 ml/m3		Germany (TRGS)



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			155 mg/m ³		900)
Tetradecanol	112-72-1	air 8 h	20 ppm 178 mg/m ³		Germany (TRGS 900)

DNEL

Calcium dibenzoate

: End Use: Workers
No hazard identified

zinc dibenzoate

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 5 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 83 mg/kg bw/day

Dodecan-1-ol

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Acute / short-term exposure, Systemic effects
Value: 125 mg/kg bw/day

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute / short-term exposure, Systemic effects
Value: 220 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 125 mg/kg bw/day

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 220 mg/m³

PNEC

Calcium dibenzoate

: Fresh water
Value: 0,39 mg/l

Marine water
Value: 0,39 mg/l



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	Sewage treatment plant No hazard identified
	Fresh water sediment Value: 2 mg/kg dry weight (d.w.)
	Marine sediment Value: 2 mg/kg dry weight (d.w.)
	Soil Value: 0,175 mg/kg dry weight (d.w.)
	Secondary Poisoning No hazard identified
zinc dibenzoate	: Fresh water Value: 0,0206 mg/l referring to zinc content
	Freshwater - intermittent referring to zinc content, not determined
	Marine water Value: 0,0061 mg/l referring to zinc content
	Sewage treatment plant Value: 0,052 mg/l referring to zinc content
	Fresh water sediment Value: 117,8 mg/kg dry weight (d.w.) referring to zinc content
	Marine sediment Value: 56,5 mg/kg dry weight (d.w.) referring to zinc content
	Soil Value: 35,6 mg/kg dry weight (d.w.) referring to zinc content
	Secondary Poisoning referring to zinc content, No hazard identified
	Fresh water Value: 0,34 mg/l referring to carboxylic acid content
	Freshwater - intermittent referring to carboxylic acid content, not determined
	Marine water



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Value: 0,34 mg/l
referring to carboxylic acid content

Sewage treatment plant
Value: 100 mg/l
referring to carboxylic acid content

Fresh water sediment
Value: 1,75 mg/kg dry weight (d.w.)
referring to carboxylic acid content

Marine sediment
Value: 1,75 mg/kg dry weight (d.w.)
referring to carboxylic acid content

Soil
Value: 0,151 mg/kg dry weight (d.w.)
referring to carboxylic acid content

Secondary Poisoning
referring to carboxylic acid content, No hazard identified

Dodecan-1-ol

: Fresh water
Value: 0,0028 mg/l

Marine water
Value: 0,00028 mg/l

Sewage treatment plant
Value: 0,0207 mg/l

Fresh water sediment
Value: 1,1 mg/kg

Marine sediment
Value: 0,11 mg/kg

Soil
Value: 0,888 mg/kg

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection.
Protective mask against solvent vapours (A2 Filter)

Hand protection : protective gloves acc. to EN 374, e.g. neoprene
Glove thickness: $\geq 0,7$ mm



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- Eye protection : Safety glasses
- Skin and body protection : Long sleeved clothing
Rubber apron
- Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.
Handle in accordance with good industrial hygiene and safety practice.
Regular cleaning of equipment, work area and clothing.

- Protective measures : antistatic shoes

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : yellow
- Odour : characteristic
- pH : No data available
- Boiling point/boiling range : ca. 255 - 305 °C, Value refers to the solvent.
- Flash point : > 100 °C
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Vapour pressure : ca. < 1,000 hPa, 20 °C, Value refers to the solvent.
- Density : 0,8 - 1,0 g/cm³
- Water solubility : slightly soluble
- Partition coefficient: n-octanol/water : No data available
- Auto-ignition temperature : No data available
- Ignition temperature : ca. 240 °C, Value refers to the solvent.
- Viscosity, dynamic : No data available
- Viscosity, kinematic : No data available



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9.2 Other information

Refractive index : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Components:

Calcium dibenzoate :

Acute oral toxicity	: Read-across (Analogy)
	: LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: study scientifically unjustified
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 2.000 mg/kg, Rabbit, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: reconstructed human epidermis (RhE), Result: not irritating, OECD Test Guideline 439, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Rabbit, Result: Causes serious eye irritation., OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	: Skin sensitisation



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	: Read-across (Analogy)
	: LLNA, Mouse, Result: negative, standardised international/national methodology, Based on available data, the classification criteria are not met.
	: Respiratory sensitisation
	: Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy)
	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471
	: Mutagenicity (micronucleus test), mouse lymphoma cells, Result: negative, OECD Test Guideline 487
	: Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: contradictory, standardised international/national methodology
Genotoxicity in vivo	: Read-across (Analogy)
	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat, Oral, OECD Test Guideline 475, GLP: no, Result: negative
	: Read-across (Analogy)
	: in vivo assay, Rat, Oral, OECD Test Guideline 478, GLP: no, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified due to lack of data.
Reproductive toxicity	: Read-across (Analogy)
	: Two-generation reproductive toxicity, Rat, Oral, NOAEL: > 750 mg/kg, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Read-across (Analogy)
STOT - repeated exposure	: Rat, NOAEL: > 1.000 mg/kg, standardised international/national methodology, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact



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zinc dibenzoate :

- Acute oral toxicity : Read-across (Analogy)
: LD50: > 2.000 mg/kg, Rat, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : Read-across (Analogy)
: LC50: > 5 mg/l, 4 h, Rat, dust/mist, Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2000 mg/kg bw, Rabbit, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Rabbit, Result: not irritating, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Rabbit, Result: Causes serious eye damage., OECD Test Guideline 405, GLP: yes
- Respiratory or skin sensitisation : Skin sensitisation, Read-across (Analogy)
: Based on available data, the classification criteria are not met.
: Respiratory sensitisation
: Not classified due to lack of data.
- Germ cell mutagenicity
- Genotoxicity in vitro : Read-across (Analogy)
: Result: negative, standardised international/national methodology, Based on available data, the classification criteria are not met.
- Carcinogenicity : Read-across (Analogy)
: Based on available data, the classification criteria are not met.
- Reproductive toxicity : Read-across (Analogy)
: Based on available data, the classification criteria are not met.
- Teratogenicity : Read-across (Analogy)
: Based on available data, the classification criteria are not met.
- STOT - single exposure : Remarks: Read-across (Analogy)
: Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : Based on available data, the classification criteria are not met.
- Aspiration toxicity : Based on available data, the classification criteria are not met.



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- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
- : Likely route of exposure, Inhalation, Ingestion, Skin contact
- Dodecan-1-ol :**
- Acute oral toxicity : LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : Read-across (Analogy)
- : LC50: > 71 mg/l, 1 h, Rat, dust/mist, Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD50: 8.000 - 12.000 mg/kg, Rabbit, OECD Test Guideline 402, GLP: no, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Humans, Result: not irritating, OECD Test Guideline 404, 4 h, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Rabbit, Result: irritating, OECD Test Guideline 405, GLP: no
- Respiratory or skin sensitisation : Skin sensitisation
- : Maximisation Test, Guinea pig, Result: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes, Based on available data, the classification criteria are not met.
- : Respiratory sensitisation
- : Based on available data, the classification criteria are not met.
- Germ cell mutagenicity
- Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
- : Read-across (Analogy)
- : Genotoxicity in vitro, V79, Result: negative, OECD Test Guideline 476
- : Read-across (Analogy)
- : Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
- Genotoxicity in vivo : In vivo micronucleus test, Mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
- Carcinogenicity : Mouse, Skin contact, GLP: no, Based on available data, the



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- classification criteria are not met.
- Reproductive toxicity : Screening for reproductive/developmental toxicity, Rat, Oral, NOAEL: 2.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- Teratogenicity : Rat, Oral, NOAEL: 2.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Rat, Oral, NOAEL: 2.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- Aspiration toxicity : Based on available data, the classification criteria are not met.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
- : Likely route of exposure, Inhalation, Ingestion, Skin contact

Tetradecanol :

- Acute oral toxicity : LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC50: > 1,5 mg/l, 1 h, Rat, vapour
- : LC50: > 0,375 mg/l, 4 h, Rat, vapour, Expert judgement, Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD50: 8.000 mg/kg, Rabbit, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Humans, Result: not irritating, OECD Test Guideline 404, 4 h, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Rabbit, Result: irritating, OECD Test Guideline 405, GLP: yes
- Respiratory or skin sensitisation : Skin sensitisation
- : Maximisation Test, Guinea pig, Result: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes, Based on available data, the classification criteria are not met.
- : Respiratory sensitisation
- : Based on available data, the classification criteria are not met.
- Germ cell mutagenicity
- Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
- : Read-across (Analogy)



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	: In vitro gene mutation study in mammalian cells, V79, Result: negative, OECD Test Guideline 476
	: Read-across (Analogy)
	: Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Read-across (Analogy)
	: In vivo micronucleus test, Mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Mouse, Skin contact, GLP: no, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	: Screening for reproductive/developmental toxicity, Rat, Oral, NOAEL: 2.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: Read-across (Analogy)
	: Rat, Oral, NOAEL: 2.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
	: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Read-across (Analogy)
STOT - repeated exposure	: Rat, Oral, Exposure time: 13 w, NOAEL: 1.127 mg/kg, GLP: no, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact

SECTION 12: Ecological information

12.1 Toxicity

Components:

Calcium dibenzoate :

Toxicity to fish	:
	: Read-across (Analogy)
	: LC50: 44,6 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish), static test, standardised international/national methodology



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- Toxicity to daphnia and other aquatic invertebrates :
: Read-across (Analogy)
: LC50: > 100 mg/l, 96 h, Daphnia magna (Water flea), static test, standardised international/national methodology
- Toxicity to algae :
: No data available
- Toxicity to bacteria :
: Read-across (Analogy)
: EC50: > 1.000 mg/l, 3 h, Bacteria, static test, OECD Test Guideline 209, GLP: yes
- Toxicity to fish (Chronic toxicity) :
: Read-across (Analogy)
: NOEC: > 120 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 204
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
: Read-across (Analogy)
: NOEC: > 25 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211

Ecotoxicology Assessment

- Short-term (acute) aquatic hazard : Based on available data, the classification criteria are not met.
- Long-term (chronic) aquatic hazard : Based on available data, the classification criteria are not met.

zinc dibenzoate :

- Toxicity to algae : EC50: 0,199 mg/l, 72 h, Pseudokirchneriella subcapitata (algae), static test, OECD Test Guideline 201, GLP: yes
- : 0,065 mg/l, 72 h, Pseudokirchneriella subcapitata (algae), static test, OECD Test Guideline 201, GLP: yes

Ecotoxicology Assessment

- Short-term (acute) aquatic hazard : Very toxic to aquatic life.
- Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Dodecan-1-ol :

- Toxicity to fish : LC50: 1,01 mg/l, 96 h, Pimephales promelas, flow-through test, standardised international/national methodology
- Toxicity to daphnia and other aquatic invertebrates : EC50: 0,765 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
- Toxicity to algae : EC50: 0,66 mg/l, 72 h, Desmodesmus subspicatus (green algae), static test, OECD Test Guideline 201, GLP: yes



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Toxicity to bacteria : EC0: > 10.000 mg/l, 30 min, Pseudomonas putida, standardised international/national methodology, GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 14 µg/L, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Tetradecanol :

Toxicity to fish : LC50: > 1 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50: 3,2 mg/l, 48 h, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 202

Toxicity to algae : EL50: > 10 mg/l, 96 h, Desmodesmus subspicatus (green algae), static test, OECD Test Guideline 201, GLP: yes

Toxicity to bacteria : EC50: > 10.000 mg/l, 30 min, Pseudomonas putida, standardised international/national methodology

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.6 µg/L, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Based on available data, the classification criteria are not met.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

Calcium dibenzoate :

Biodegradability :
: Read-across (Analogy)
: aerobic, 100 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, standardised international/national methodology

zinc dibenzoate :

Biodegradability : Result: Readily biodegradable.,
: The organic components of the product are biodegradable.
:
: The methods for determining biodegradability are not applicable to inorganic substances.

Dodecan-1-ol :



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Biodegradability : aerobic, 79 %, Result: Readily biodegradable., Exposure time: 28 d, closed bottle test according to OECD 301 D, GLP: yes

Tetradecanol :

Biodegradability : aerobic, 92 %, Result: Readily biodegradable., Exposure time: 28 d, standardised international/national methodology, GLP: yes

12.3 Bioaccumulative potential

Components:

Calcium dibenzoate :

Bioaccumulation :
study scientifically unjustified

zinc dibenzoate :

Bioaccumulation :
Bioaccumulation is unlikely.

Dodecan-1-ol :

Bioaccumulation : Bioconcentration factor (BCF): 3.801, QSAR

Tetradecanol :

Bioaccumulation : Bioconcentration factor (BCF): 33.900, QSAR

12.4 Mobility in soil

Components:

Calcium dibenzoate :

Mobility : No data available

zinc dibenzoate :

Mobility : No data available

Dodecan-1-ol :

Mobility : No data available

Tetradecanol :

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Components:

Calcium dibenzoate :

Assessment : Based on available data, the classification criteria are not met.

zinc dibenzoate :

Assessment : Based on available data, the classification criteria are not met.

Dodecan-1-ol :

Assessment : Based on available data, the classification criteria are not met.

Tetradecanol :

Assessment : Based on available data, the classification criteria are not met.

12.6 Other adverse effects

Calcium dibenzoate :

Further information : No information available.

zinc dibenzoate :

Further information : No information available.



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Dodecan-1-ol :

Further information : No information available.

Tetradecanol :

Further information : No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

14.1 UN number

ADR : 3082
IMDG : 3082
IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (1-Tetradecanol, Dodecan-1-ol, solution)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (1-Tetradecanol, Dodecan-1-ol, solution)
IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (1-Tetradecanol, Dodecan-1-ol, solution)

14.3 Transport hazard class

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Packaging group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)
IMDG
Packaging group : III
Labels : 9
EmS Number : F-A, S-F
IATA
Packing instruction (cargo) : 964



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aircraft)
Packing instruction : 964
(passenger aircraft)
Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

See this safety data sheet chapter 6. - 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable

SECTION 15: Regulatory information

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

Major Accident Hazard : Seveso III: Directive 2012/18/EU of the European Parliament
Legislation and of the Council on the control of major-accident hazards
involving dangerous substances.

Water contaminating class : WGK 2 obviously hazardous to water
(Germany) Classification according to AwSV, Annex 1 (5.2)

Other regulations : Falls under the Dangerous Substances Regulations.

: relevant: Directive 1999/92/EC, 94/9/EC, 98/24/EC

: non-relevant: Regulation (EC) No. 2037/2000, (EC) No.
850/2004 with amending Directive 79/117/EEC, (EC) No.
689/2008

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.



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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.