

SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation,
23.06.2017, No: 30105

BAERLOCHER



BAEROSTAB KK 42-60 ME

Version 1.0

Revision Date 26.10.2023

Print Date 22.02.2024

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : BAEROSTAB KK 42-60 ME

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 Italia S.p.A.
+39-0371/451-1
+39-0371/451-320
Via Colombano, 62/A
26900 Lodi (LO) - Italia

Telephone : +3903714511

Telefax : +390371451320

E-mail address of person responsible for the SDS : Hotline.PS@baerlocher.com
Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

+39 02 6610 1029 (24 h) (Poison Control Centre (CAV); Ospedale Niguarda Ca' Granda;
Piazza Ospedale Maggiore 3 - Milano)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification T.R. SEA No 28848 and subsequent amendments

Eye irritation, Category 2 H319: Causes serious eye irritation.

Reproductive toxicity, Category 1B H360D: May damage the unborn child.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard,
Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling T.R. SEA No 28848 and subsequent amendments

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H360D May damage the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P391 Collect spillage.

Hazardous components which must be listed on the label:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Hexanoic acid, 2-ethyl-, zinc salt (2:1)

Additional Labelling:

Restricted to professional users.

2.3 Other hazards

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.
Combustible material

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3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Contains organic solvents.

Components

Chemical name	CAS-No. EC-No. Index-No. KKDIK Registration No.	SEA Classification	Concentration (% w/w)
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	64742-48-9	Asp. Tox. 1; H304	>= 25
Hexanoic acid, 2-ethyl-, zinc salt (2:1)	136-53-8 205-251-1 607-230-00-6	Eye Irrit. 2; H319 Repr. 1B; H360D Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 25
Ethanol, 2-(2-butoxyethoxy)-	112-34-5 203-961-6 603-096-00-8	Eye Irrit. 2; H319	< 10

For explanation of abbreviations see section 16.

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.

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Take off contaminated clothing and shoes immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.

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.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

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6.3 Methods and material 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.

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.

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.

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 : Observe storage regulations and explosion protection for flammable liquids.

Storage class (TRGS 510) : 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
2-(2-Butoxyethoxy)ethanole	112-34-5	TWA (8 Hour)	10 ppm 67,5 mg/m ³	2013-08-12	Türkiye. Chemical Agents at Work - Annex I: Indicative

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					occupational exposure limit values
		STEL 15 min	15 ppm 101,2 mg/m ³	2013-08-12	Türkiye. Chemical Agents at Work - Annex I: Indicative occupational exposure limit values

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Glove thickness : $\geq 0,7$ mm

Directive : protective gloves acc. to EN 374, e.g. neoprene

Skin and body protection : Long sleeved clothing
Rubber apron

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

Protective measures : antistatic shoes

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : characteristic

pH : substance/mixture is non-soluble (in water)

Boiling point/boiling range : 184 - 214 °C Method: ASTM D 86
Value refers to the solvent.

Flash point : > 62 °C

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Upper explosion limit / : ca. 6,0 %(V)
Upper flammability limit Value refers to the solvent.

Lower explosion limit / : ca. 0,6 %(V)
Lower flammability limit Value refers to the solvent.

Vapour pressure : 0,5 hPa (20 °C)
Value refers to the solvent.

Density : 0,9 g/cm³ (20 °C)

Solubility(ies)
Water solubility : slightly soluble

Partition coefficient: n- : No data available
octanol/water

Auto-ignition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

9.2 Other information

Refractive index : No data available

Self-ignition : 233 °C
Method: ASTM E 659
Value refers to the solvent.

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

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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.

11. Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion

Acute toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 15.000 mg/kg
Method: OECD Test Guideline 401
GLP: no
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: Read-across (Analogy)

LC50 (Rat): > 6,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Remarks: Read-across (Analogy)

LD50 (Rabbit): > 3.160 mg/kg
Method: OECD Test Guideline 402
GLP: yes

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Assessment: The substance or mixture has no acute dermal toxicity

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Read-across (Analogy)
referring to zinc content

LD50 (Rat): 2.043 mg/kg
Assessment: The component/mixture is minimally toxic after single ingestion.
Remarks: Read-across (Analogy)
referring to carboxylic acid content
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Read-across (Analogy)

LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Ethanol, 2-(2-butoxyethoxy)-:

Acute oral toxicity : LD50 (Mouse): 2.410 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no

LC50 (Rat): > 1,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
Assessment: The substance or mixture has no acute inhalation toxicity

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Acute dermal toxicity : LD50 (Rabbit): 2.764 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Remarks : Read-across (Analogy)

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : Based on available data, the classification criteria are not met.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Remarks : Read-across (Analogy)

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes

Ethanol, 2-(2-butoxyethoxy)-:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : no

Serious eye damage/eye irritation

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Remarks : Read-across (Analogy)

Species : Rabbit
Method : OECD Test Guideline 405
Result : not irritating
GLP : yes

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

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Remarks : Read-across (Analogy)

Species : Rabbit

Method : OECD Test Guideline 405

Result : Eye irritation

GLP : yes

Ethanol, 2-(2-butoxyethoxy)-:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Eye irritation

GLP : no

Respiratory or skin sensitisation

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Remarks : Skin sensitisation
Read-across (Analogy)

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : no

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

Remarks : Respiratory sensitisation
Based on available data, the classification criteria are not met.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Remarks : Skin sensitisation

Remarks : Read-across (Analogy)

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

Remarks : Respiratory sensitisation

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

Ethanol, 2-(2-butoxyethoxy)-:

Remarks : Skin sensitisation

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

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

Remarks : Respiratory sensitisation
Not classified due to lack of data.

Germ cell mutagenicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Test system: Bacteria

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: In vitro gene mutation study in mammalian cells

Test system: mouse lymphoma cells

Method: OECD Test Guideline 476

Result: negative

GLP: no

Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Test system: Human lymphocytes

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Method: OECD Test Guideline 473

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Genotoxicity in vitro : Remarks: Read-across (Analogy)

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

Ethanol, 2-(2-butoxyethoxy)-:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells

Test system: Chinese hamster ovary cells

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Test system: Chinese hamster ovary cells

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)

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Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

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

Carcinogenicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Remarks : Read-across (Analogy)

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

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Remarks : Read-across (Analogy)

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

Ethanol, 2-(2-butoxyethoxy)-:

Remarks : Not classified due to lack of data.

Reproductive toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Effects on fertility : Method: OECD Test Guideline 443
Remarks: (in preparation)

Effects on foetal development : Remarks: Read-across (Analogy)

Species: Rat

Application Route: Inhalation

General Toxicity Maternal: NOAEL: 5.220 mg/m³

Teratogenicity: NOAEL: 5.220 mg/m³

Embryo-foetal toxicity: NOAEL: 5.220 mg/m³

Method: OECD Test Guideline 414

GLP: no

Remarks: Based on available data, the classification

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criteria are not met.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Effects on foetal development : Remarks: Read-across (Analogy)
referring to carboxylic acid content
May damage the unborn child.

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based
on animal experiments.

Ethanol, 2-(2-butoxyethoxy)-:

Effects on fertility : Test Type: Two-generation study
Species: Mouse
Application Route: Oral
General Toxicity - Parent: NOAEL: 2.200 mg/kg body
weight
Fertility: NOAEL: 2.200 mg/kg body weight
Early Embryonic Development: NOAEL: 2.200 mg/kg
body weight
Method: OECD Test Guideline 416

Test Type: One-generation reproduction toxicity test
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1.000 mg/kg body
weight
Fertility: NOAEL: 1.000 mg/kg body weight
Early Embryonic Development: NOAEL: 1.000 mg/kg
body weight
Method: OECD Test Guideline 415

Test Type: One-generation reproduction toxicity test
Species: Rat
Application Route: Dermal
General Toxicity - Parent: NOAEL: 2.000 mg/kg body
weight
Fertility: NOAEL: 2.000 mg/kg body weight
Early Embryonic Development: 2.000 mg/kg body
weight
Method: OECD Test Guideline 415
Remarks: Based on available data, the classification
criteria are not met.

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Effects on foetal development : Species: Rabbit
Application Route: Dermal
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight
Teratogenicity: NOAEL: 1.000 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 414

Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 633 mg/kg body weight
Teratogenicity: NOAEL: 633 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 633 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Ethanol, 2-(2-butoxyethoxy)-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Assessment : The substance or mixture is not classified as specific

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target organ toxicant, repeated exposure.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Ethanol, 2-(2-butoxyethoxy)-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Species : Rat
NOAEL : > 500 mg/kg
Application Route : Oral
Exposure time : 13 w
Method : OECD Test Guideline 408
GLP : yes

Remarks : Read-across (Analogy)

Species : Rat
NOAEL : > 10,4 mg/l
Application Route : Inhalation
Exposure time : 13 w
Method : OECD Test Guideline 413

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Remarks : Read-across (Analogy)
Based on available data, the classification criteria are not met.

Ethanol, 2-(2-butoxyethoxy)-:

Species : Rat
NOAEL : 250 mg/kg
Application Route : Oral
Exposure time : 90d
Method : OECD Test Guideline 408
GLP : yes

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Species : Rat
: < 200 mg/kg
Application Route : Dermal
Exposure time : 90d
Method : OECD Test Guideline 411
Symptoms : Local effects

Species : Rat
NOAEL : 0,094 mg/l
Application Route : Inhalation
Exposure time : 90d
Method : OECD Test Guideline 413
GLP : yes

Aspiration toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

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

Ethanol, 2-(2-butoxyethoxy)-:

Not classified due to lack of data.

Further information

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Remarks : CMR effects
Carcinogenicity
Mutagenicity
Reproductive toxicity
Hazard assessment
Category 1A
Category 1B
Based on available data, the classification criteria are not met.

Remarks : Most important symptoms and effects, both acute and

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delayed
See chapter
4. First aid measures

12. Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l

Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and : LL50 (Daphnia magna (Water flea)): > 1.000 mg/l

other aquatic invertebrates

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l

plants

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to : EL50 (Tetrahymena pyriformis): > 1.000 mg/l

microorganisms

Exposure time: 48 h

Method: QSAR

GLP: no

Toxicity to fish (Chronic : NOELR: 0,101 mg/l

toxicity)

Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR

GLP: no

Toxicity to daphnia and : NOELR: 0,176 mg/l

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other aquatic invertebrates
(Chronic toxicity)

Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: QSAR
GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Toxicity to fish : Remarks: Read-across (Analogy)

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg
Zn/L

Exposure time: 96 h

Test Type: static test

Method: standardised international/national methodology

Remarks: Read-across (Analogy)

LC50 (Pimephales promelas (fathead minnow)): 0,330 -
0,780 mg Zn/L

Exposure time: 96 h

Remarks: Read-across (Analogy)

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100
mg carboxylic acid moiety/L

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and
other aquatic invertebrates : Remarks: Read-across (Analogy)

LC50 (Ceriodaphnia dubia (water flea)): 0,147 - > 0,53
mg Zn/L

Exposure time: 48 h

Method: standardised international/national methodology

Remarks: Read-across (Analogy)

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EC50 (*Daphnia magna* (Water flea)): 85,4 mg carboxylic acid moiety/L
Exposure time: 48 h
Test Type: static test
Method: standardised international/national methodology
GLP: no

Toxicity to algae/aquatic plants : Remarks: Read-across (Analogy)

IC50 (*Pseudokirchneriella subcapitata* (green algae)): 0,136 mg Zn/L
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

Remarks: Read-across (Analogy)

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0,024 mg Zn/L
Exposure time: 3 d
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

Remarks: Read-across (Analogy)

EC50 (*Desmodesmus subspicatus* (green algae)): 49,3 mg carboxylic acid moiety/L
Exposure time: 72 h
Test Type: static test
Method: DIN 38412
GLP: no

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : Remarks: Read-across (Analogy)

EC50 (activated sludge): 5,2 mg Zn/L

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Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Remarks: Read-across (Analogy)

EC50 (*Pseudomonas putida*): 112,1 mg carboxylic acid moiety/L
Exposure time: 17 h
Test Type: static test
Method: standardised international/national methodology
GLP: no

Toxicity to fish (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC: 0,044 - 0,530 mg Zn/L
Test Type: Fresh water

Remarks: Read-across (Analogy)

NOEC: 0,025 mg Zn/L
Test Type: Marine water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC: 0,014 - 0,400 mg Zn/L
Test Type: Fresh water

Remarks: Read-across (Analogy)

NOEC: 0,0056 - 0,9 mg Zn/L
Test Type: Marine water

Remarks: Read-across (Analogy)

NOEC: 18 - 21 mg carboxylic acid moiety/L
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 211

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Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Ethanol, 2-(2-butoxyethoxy)-:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.300 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

EC50 (Raphidocelis subcapitata (freshwater green alga)): 1.101 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): > 1.995 mg/l
Exposure time: 0,5 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: no

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 369 mg/l
Exposure time: 30 d
Species: Fish

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Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 112 mg/l
Exposure time: 14 d
Species: Non-standard test species
Method: QSAR

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Biodegradability : Remarks: Read-across (Analogy)

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Remarks: Read-across (Analogy)

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 99 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
GLP: no
Remarks: The organic components of the product are biodegradable.

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Ethanol, 2-(2-butoxyethoxy)-:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: no

12.3 Bioaccumulative potential

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Bioaccumulation : Bioconcentration factor (BCF): 39,81 - 19.054,61
Method: QSAR

Partition coefficient: n- : log Pow: 3,17 - 7,22 (20 °C)
octanol/water Method: QSAR

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Bioaccumulation : Remarks: Read-across (Analogy)

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: > 5,7 (20 °C)
octanol/water Method: OECD Test Guideline 107
GLP: no

Ethanol, 2-(2-butoxyethoxy)-:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 1 (20 °C)
octanol/water pH: 7
Method: OECD Test Guideline 117
GLP: yes

12.4 Mobility in soil

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Mobility : Method: QSAR
Remarks: Predicted distribution to environmental

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compartments, Sediment, Air

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Mobility : Remarks: Read-across (Analogy)
: Method: QSAR
Remarks: Predicted distribution to environmental compartments, Water

Ethanol, 2-(2-butoxyethoxy)-:

Mobility : Method: QSAR
Remarks: Predicted distribution to environmental compartments, Water

12.5 Results of PBT and vPvB assessment

Product:

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.

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

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

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

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

Ethanol, 2-(2-butoxyethoxy)-:

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

12.6 Other adverse effects

Components:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics:

Endocrine disrupting : No information available.

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potential

Hexanoic acid, 2-ethyl-, zinc salt (2:1):

Endocrine disrupting : No information available.
potential

Ethanol, 2-(2-butoxyethoxy)-:

Endocrine disrupting : No information available.
potential

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.

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. (Zinc bis(2-ethylhexanoate), solution)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Zinc bis(2-ethylhexanoate), solution)
IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Zinc bis(2-ethylhexanoate), solution)

14.3 Transport hazard class

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Packaging group : III

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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 aircraft) : 964
Packing instruction (passenger aircraft) : 964
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

15. Regulatory information

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

Other regulations:

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published.

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for some ingredients.

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16. Other information

Full text of H-Statements

- H304 : May be fatal if swallowed and enters airways.
- H319 : Causes serious eye irritation.
- H360D : May damage the unborn child.
- H400 : Very toxic to aquatic life.
- H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

- Aquatic Acute : Short-term (acute) aquatic hazard
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Eye Irrit. : Eye irritation
- Repr. : Reproductive toxicity

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; 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; 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; 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; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

SDS Author

Serdar Petin, Kimyasal Değerlendirme Uzmanı Sertifika No (KDU certificate no): TÜV/11.199.05

Classification of the mixture:

Eye Irrit. 2	H319
Repr. 1B	H360D
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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