

MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier

Trade name : **PKR 001 KICKER**

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 : **PARKELAK KİMYA SAN. VE TİC.AŞ**
Unalan Mah. Libadiye Sok.Emaar Square Sitesi No:82/E D:1212
34700 Üsküdar-İstanbul-TÜRKİYE

Phone/Fax: 00 90 216 912 14 30 / 00 90 216 515 47 65

E-mail address : info@parkelak.com.tr

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





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	01-2119979071-36-0002	Aquatic Chronic 3; H412	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-446-0 01-2119458049-33-xxxx	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 2; H411	>= 25
2-(2-Butoxyethoxy) ethanole	112-34-5 203-961-6 01-2119475104-44-xxxx	Eye Irrit. 2; H319	< 10

For the full text of the H-Statements mentioned in this Section, 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.
Take off contaminated clothing and shoes immediately.
- In case of eye contact : Rinse with plenty of water.
- If swallowed : Get medical advice/ attention if you feel unwell.
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



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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.

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.

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 : Observe storage regulations and explosion protection for flammable liquids.

German storage class : 3 Flammable liquids

7.3 Specific end use(s)



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: 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	air 8 h	10 ml/m ³ 67 mg/m ³		Germany (MAK)

DNEL

Zinc bis(2-ethylhexanoate)

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Repeated or prolonged exposure,
Systemic effects
Value: 26,32 mg/m³

End Use: Workers
Exposure routes: Skin contact



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	Potential health effects: Repeated or prolonged exposure, Systemic effects Value: 6,1 mg/kg bw/day
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	: End Use: Workers Exposure routes: Skin contact Potential health effects: Repeated or prolonged exposure, Systemic effects Value: 44 mg/kg bw/day
	End Use: Workers Exposure routes: Inhalation Potential health effects: Repeated or prolonged exposure, Systemic effects Value: 330 mg/m3
2-(2-Butoxyethoxy) ethanole	: End Use: Workers Exposure routes: Inhalation Potential health effects: Repeated or prolonged exposure, Systemic effects Value: 67,5 mg/m3
	End Use: Workers Exposure routes: Inhalation Potential health effects: Repeated or prolonged exposure, Local effects Value: 67,5 mg/m3
	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute / short-term exposure, Local effects Value: 101,2 mg/m3
	End Use: Workers Exposure routes: Skin contact Potential health effects: Repeated or prolonged exposure, Systemic effects Value: 83 mg/kg bw/day
PNEC Zinc bis(2-ethylhexanoate)	: Fresh water Value: 20,6 µg Zn/L
	Marine water Value: 6,1 µg Zn/L
	Microbiological Activity in Sewage Treatment Systems Value: 52 µg Zn/L
	Fresh water sediment



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Value: 117,8 mg Zn/kg d.w.

Marine sediment

Value: 56,5 mg Zn/kg d.w.

Soil

Value: 35,6 mg Zn/kg d.w.

Fresh water

Value: 0,36 mg carboxylic acid moiety/L

Marine water

Value: 0,036 mg carboxylic acid moiety/L

water intermittent release

Value: 0,493 mg carboxylic acid moiety/L

Microbiological Activity in Sewage Treatment Systems

Value: 71,7 mg carboxylic acid moiety/L

Fresh water sediment

Value: 6,37 mg carboxylic acid moiety/kg d.w.

Marine sediment

Value: 0,637 mg carboxylic acid moiety/kg d.w.

Soil

Value: 1,06 mg carboxylic acid moiety/kg d.w.

Hydrocarbons, C9-C12, n- : not determined

alkanes, isoalkanes, cyclics,
aromatics (2-25%)

2-(2-Butoxyethoxy) ethanole : Fresh water
Value: 1,1 mg/l

Marine water

Value: 0,11 mg/l

water intermittent release

Value: 11 mg/l

Microbiological Activity in Sewage Treatment Systems

Value: 200 mg/l

Fresh water sediment

Value: 4,4 mg/kg d.w.

Marine sediment

Value: 0,44 mg/kg d.w.

Soil

Value: 0,32 mg/kg d.w.



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Secondary Poisoning
Value: 56 mg/kg food

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

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.

Protective measures : antistatic shoes

Environmental exposure controls

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

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 : 135 - 220 °C, 1.013 hPa, Value refers to the solvent.

Flash point : > 40 °C

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

Upper explosion limit : 7,2 %(V), Value refers to the solvent.

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Vapour pressure	: 2,3 hPa, 20 °C, Value refers to the solvent.
Density	: 1,0 g/cm ³ , 20 °C
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: > 200 °C, Value refers to the solvent.
Ignition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

9.2 Other information

Refractive index	: No data available
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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.

11. Toxicological information

11.1 Information on toxicological effects

Components:

Zinc bis(2-ethylhexanoate) :

Acute oral toxicity : LD50: > 2.000 mg/kg, Rat, standardised international/national methodology, Based on available data, the classification criteria are not met.

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



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- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 402, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Read-across (Analogy)
: Rabbit, Result: slight irritation, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Read-across (Analogy)
: Rabbit, Result: irritating, 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
: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity
- Genotoxicity in vitro : Read-across (Analogy)
: 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)
: Suspected of damaging the unborn child.
- STOT - single exposure : Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Read-across (Analogy), 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
- Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :**
- Acute oral toxicity : LD50: > 15.000 mg/kg, Rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC50: > 13,1 mg/l, 4 h, Rat, vapour, OECD Test Guideline 403, Based on available data, the classification criteria are not met.

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Acute dermal toxicity	: LD50: > 4 mL/kg bw, Rat, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Rabbit, 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: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation : Maximisation Test, Guinea pig, Result: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: no, 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	: Mutagenicity (in vitro mammalian cytogenetic test), Human lymphocytes, Result: negative, OECD Test Guideline 473 : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471 : Read-across (Analogy) : Genotoxicity in vitro, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, 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, Result: negative : Read-across (Analogy) : Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, intraperitoneally, OECD Test Guideline 475, Result: negative : Read-across (Analogy) : Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, Inhalation, OECD Test Guideline 475, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy) : Rat, Inhalation, OECD Test Guideline 453, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, Rat, Inhalation, Test period: 8 weeks, OECD Test Guideline 421, GLP: no



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- : Read-across (Analogy)
- : Two-generation reproductive toxicity, Mouse, Inhalation, OECD Test Guideline 416, GLP: yes
- : Read-across (Analogy)
- : Screening for reproductive/developmental toxicity, Rat, Oral, OECD Test Guideline 421, GLP: yes
- : Read-across (Analogy)
- : Screening for reproductive/developmental toxicity, Rat, Oral, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- Teratogenicity : Rat, Inhalation, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.
- STOT - single exposure : Exposure routes: Inhalation
Target Organs: Nervous system
Assessment: May cause drowsiness or dizziness.
- STOT - repeated exposure : Rat, Oral, Exposure time: 30 days, OECD Test Guideline 408, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : Rat, Dermal, Exposure time: 13 weeks, OECD Test Guideline 411, GLP: yes, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Rat, Inhalation, Exposure time: 12 weeks, OECD Test Guideline 413, GLP: no, Based on available data, the classification criteria are not met.
- Aspiration toxicity : May be fatal if swallowed and enters airways.
- 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
- 2-(2-Butoxyethoxy) ethanole :**
- Acute oral toxicity : LD50: 2.410 mg/kg, Mouse(male), OECD Test Guideline 401, GLP: no, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC50: > 0,35 mg/l, 4 h, Rat, vapour, Expert judgement, > Saturated vapour concentration
: LC0: 0,35 mg/l, 14 d, Rat, vapour, OECD Test Guideline 412, GLP: yes, > Saturated vapour concentration
: LC50: > 29 ppm, 2 h, Rat, vapour, OECD Test Guideline 403, GLP: no, Based on available data, the classification criteria



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	are not met.
Acute dermal toxicity	: LD50: 2.764 mg/kg, Rabbit, OECD Test Guideline 402, GLP: no, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Rabbit, Result: slight irritation, OECD Test Guideline 404, 1 h, GLP: no, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Rabbit, Result: highly irritant, 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, 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	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471 : In vitro gene mutation study in mammalian cells, Chinese hamster ovary cells, Result: negative, OECD Test Guideline 476, GLP: yes : Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: negative, OECD Test Guideline 473, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, Oral, Single dose, OECD Test Guideline 475, 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 study, Mouse, Oral, standardised international/national methodology, Based on available data, the classification criteria are not met.
Teratogenicity	: Rabbit, Skin contact, OECD Test Guideline 414 : Rat, Oral, OECD Test Guideline 414, 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	: Rat, Oral, standardised international/national methodology, GLP: yes
STOT - repeated exposure	: Rat, Dermal, standardised international/national methodology



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- STOT - repeated exposure : Rat, Inhalation, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Aspiration toxicity : Not classified due to lack of data.
- 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

12. Ecological information

12.1 Toxicity

Components:

Zinc bis(2-ethylhexanoate) :

- Toxicity to fish :
Read-across (Analogy)
: LC50: 100 mg/l, 96 h, Cyprinus carpio (Carp), OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates :
Read-across (Analogy)
: EC50: 5 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
- Toxicity to algae :
Read-across (Analogy)
: EC50: 2,72 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria :
IC50: > 100 mg/l, 3 h, activated sludge, static test, OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) :
Read-across (Analogy)
NOEC: 0,044 - 0,530 mg Zn/L, Fresh water

Read-across (Analogy)
NOEC: 0,025 mg Zn/L, Marine water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
Read-across (Analogy)
NOEC: 0,037 - 0,400 mg Zn/L, Fresh water



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Read-across (Analogy)
NOEC: 0,0056 - 0,9 mg Zn/L, Marine water

Ecotoxicology Assessment

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

- Toxicity to fish : LL50: 10 - 30 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EL50: 10 - 22 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
- Toxicity to algae : EL50: 4,6 - 10 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), Growth inhibition, OECD Test Guideline 201, GLP: yes
: EC50: 1,2 mg/l, 96 h, Pseudokirchneriella subcapitata (green algae), Growth inhibition, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria : EL50: 43,98 mg/l, 48 h, Tetrahymena pyriformis, Growth inhibition, QSAR, GLP: no
- Toxicity to fish (Chronic toxicity) : NOEL: 0,13 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR, GLP: no
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Read-across (Analogy)
NOEC: 0,097 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes

2-(2-Butoxyethoxy) ethanole :

- Toxicity to fish : LC50: 1.300 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish), static test, OECD Test Guideline 203, GLP: no
- Toxicity to daphnia and other aquatic invertebrates : NOEC: >= 100 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
- Toxicity to algae : NOEC: > 100 mg/l, 96 h, Desmodesmus subspicatus (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria : EC10: > 1.995 mg/l, 0,5 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: no

Ecotoxicology Assessment

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.



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Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Components:

Zinc bis(2-ethylhexanoate) :

Biodegradability :
Read-across (Analogy)
: aerobic, 70 %, Result: Readily biodegradable, Exposure time:
28 d, activated sludge, OECD Test Guideline 301D, GLP: yes

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

Biodegradability :
Read-across (Analogy)
: aerobic, Result: Readily biodegradable, Exposure time: 31 d,
activated sludge, OECD Test Guideline 301, GLP: yes

2-(2-Butoxyethoxy) ethanol :

Biodegradability : aerobic, 85 %, Result: Readily biodegradable, Exposure time:
28 d, activated sludge, OECD Test Guideline 301C, GLP: no

12.3 Bioaccumulative potential

Components:

Zinc bis(2-ethylhexanoate) :

Bioaccumulation :
Read-across (Analogy), This substance is not considered to
be bioaccumulating.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

Bioaccumulation :
study technically not feasible

2-(2-Butoxyethoxy) ethanol :

Bioaccumulation :
Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

Zinc bis(2-ethylhexanoate) :

Mobility : Not applicable

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

Mobility : Predicted distribution to environmental compartments, Air

2-(2-Butoxyethoxy) ethanol :

Mobility : QSAR, Predicted distribution to environmental compartments,
Water

12.5 Results of PBT and vPvB assessment

Components:

Zinc bis(2-ethylhexanoate) :

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

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

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



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2-(2-Butoxyethoxy) ethanole :

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

12.6 Other adverse effects

Zinc bis(2-ethylhexanoate) :

Further information : No information available.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) :

Further information : No information available.

2-(2-Butoxyethoxy) ethanole :

Further information : No information available.

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 : 1993

IMDG : 1993

IATA : 1993

14.2 Proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), solution)

IMDG : FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), solution)

IATA : FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), solution)

14.3 Transport hazard class

ADR : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADR

Packaging group : III

Classification Code : F1

Hazard Identification Number : 30



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Labels : 3
Tunnel restriction code : (D/E)
IMDG
Packaging group : III
Labels : 3
EmS Number : F-E, S-E
Flash point : 39°C c.c.

IATA
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Packaging group : III
Labels : 3

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

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

Water contaminating class (Germany) : WGK 2 water endangering

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



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: 2-(2-Butoxyethoxy)ethanol:, REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

15.2 Chemical safety assessment

This information is not available.

16. Other information

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

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.