



B 2656

Version 1.1

Revision Date 18.07.2017

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

1.1 Product identifier

Trade name : **B 2656**
Other means of Identification : Liquid Barium Zinc Compound

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
Restrictions on Use : None known

1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC
5890 Highland Ridge Drive
Cincinnati, OH 45232
Telephone : Day 330-602-1528, 330-602-1531 or -1530
Night 513-207-1620 or 513-604-2327
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

2. Hazards identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms :

Signal word : Danger



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Hazard statements	:	H304 H315 H317 H318 H336 H412	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P280 P280 Response: P301 + P310 P305 + P351 + P338 P310 P331	Wear eye protection/ face protection. Wear protective gloves. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Do NOT induce vomiting.

2.3 Other hazards

The product is combustible.
May produce an allergic reaction.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation contains barium- and zinc carboxylates in organic solvent.

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
Diisodecyl phenyl phosphite	25550-98-5	< 25*
Distillates (petroleum), hydrotreated light	64742-47-8	< 30*
Barium compounds*	Trade Secret*	< 25*
Dibenzoyl methane	120-46-7	< 10*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Zinc compounds*	Trade Secret*	< 20*
Isodecyl diphenyl phosphite	26544-23-0	< 20*
Triisodecyl phosphite	25448-25-3	< 10*

*Trade Secret – The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.



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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 : Consult a doctor and show this safety datasheet.

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.
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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.
- Further information : Release of Phenol by hydrolysis.
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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.

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.



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8. Exposure controls/personal protection

8.1 Control parameters

Substance	CAS No.	Regulatory Limits			Recommended Limits	
		OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH TLV
		ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Barium, soluble compounds (as Ba)	7440-39-3		0.5	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
2-(2-butoxyethoxy) ethanol	112-34-5					10 ppm
Distillates (Petroleum), hydrotreated light	64742-47-8					200 mg/m ³
Particulates Not Otherwise Regulated (PNOR) Inhalable Respirable fraction			5	5 mg/m ³		10 mg/m ³ 3 mg/m ³

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation:
Protective mask against solvent vapours (A2 Filter)
- Hand protection : protective gloves acc. to EN 374, e.g. neoprene, thickness:
min. 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.



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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

Color : yellowish

Odor : characteristic

pH : No data available

Boiling point/boiling range : ca. 230 °C, 1.013 hPa, Value refers to the solvent.

Flash point : > 100 °C

Lower explosion limit : 0,8 %(V), Value refers to the solvent.

Upper explosion limit : 5,9 %(V), Value refers to the solvent.

Vapour pressure : ca. 0,02 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 : 210 °C, Value refers to the solvent.

Ignition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Odor Threshold : No data available

Melting/Freezing Point : No data available

Evaporation Rate : No data available

Flammability : No data available

Vapor Density : No data available

Decomposition Temperature : No data available



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9.2 Other information

No data available

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 : Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : 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

Product

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method

Components:

Diisodecyl phenyl phosphite :

Acute oral toxicity : LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 401, GLP: no, Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50: > 11,7 mg/l, 1 h, Rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50: > 2.000 mg/kg, Rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.



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Skin corrosion/irritation	: 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	: Rabbit, Result: not irritating, OECD Test Guideline 405, GLP: no, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation : LLNA, Mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes : 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 : DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, 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	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy) : Screening for reproductive/developmental toxicity, Rat, Oral, Test period: 8 weeks, NOAEL: 1.000 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: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, 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, Oral, NOAEL: 1.000 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,



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

: Likely route of exposure, Inhalation, Ingestion, Skin contact

Distillates (petroleum), hydrotreated light :

Acute oral toxicity : LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 420, GLP: yes, Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50: > 5,28 mg/l, 4 h, Rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50: > 2.000 mg/kg, Rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation : Rabbit, Result: not irritating, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Skin sensitisation

: Buehler Test, Guinea pig, Result: not sensitising, 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

: In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes, Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Genotoxicity in vivo, Rat, intraperitoneally, OECD Test Guideline 478, Result: negative

: Genotoxicity in vivo, Mouse, intraperitoneally, OECD Test Guideline 478, Result: negative

: Genotoxicity in vivo, Mouse, Inhalation, OECD Test Guideline 478, Result: negative

: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat, intraperitoneally, OECD Test Guideline 475, GLP: yes, Based on available data, the classification criteria are not met.

Carcinogenicity : Mouse, Skin contact, OECD Test Guideline 451, GLP: yes, Based on available data, the classification criteria are not met.

Reproductive toxicity : One-generation reproduction toxicity test, Rat, Oral



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- Teratogenicity : Screening for reproductive/developmental toxicity, Rat, Skin contact, NOAEL: > 494 mg/kg, OECD Test Guideline 421, Based on available data, the classification criteria are not met.
- Teratogenicity : Rat, Inhalation, OECD Test Guideline 414
- Teratogenicity : Rat, Oral, OECD Test Guideline 414, Based on available data, the classification criteria are not met.
- STOT - single exposure : Assessment: May cause drowsiness or dizziness.
- STOT - repeated exposure : Rat, Oral, Exposure time: <= 90 d, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : rat / mouse, Inhalation, Exposure time: 90 d, OECD Test Guideline 413, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Rat, Dermal, Exposure time: 28 d, OECD Test Guideline 410, GLP: yes, 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.
- Further information : Likely route of exposure, Inhalation, Ingestion, Skin contact
- Barium compounds :**
- Acute oral toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
- Acute dermal toxicity : Read-across (Analogy)
- Acute dermal toxicity : LD50: 2000 mg/kg bw, Rat, OECD Test Guideline 402, GLP: yes, 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 : in vitro assay, Result: Causes serious eye damage., OECD Test Guideline 437, GLP: yes
- Respiratory or skin sensitisation : Skin sensitisation, Read-across (Analogy)
- Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation : Respiratory sensitisation



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- Germ cell mutagenicity : Based on available data, the classification criteria are not met.
- Genotoxicity in vitro : Read-across (Analogy)
: Based on available data, the classification criteria are not met.
- Carcinogenicity : Not classified due to lack of data.
- Reproductive toxicity : Not classified due to lack of data.
- STOT - single exposure : Remarks: Not classified due to lack of data.
- STOT - repeated exposure : Not classified due to lack of data.
- 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
- Barium compounds :**
- Acute oral toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2000 mg/kg bw, Rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Not classified due to lack of data.
- 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)
: LLNA, Mouse, Result: not sensitising, OECD Test Guideline 429, Based on available data, the classification criteria are not met.
: Respiratory sensitisation, Not classified due to lack of data.
- Germ cell mutagenicity
- Genotoxicity in vivo : Read-across (Analogy)
: In vitro tests showed mutagenic effects which were not observed with in vivo test., Based on available data, the



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- 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 : 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
- Barium compounds :**
- Acute oral toxicity : LD50: 1.480 mg/kg, Rat, OECD Test Guideline 401, GLP: no
: Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2000 mg/kg bw, Rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : Read-across (Analogy)
: EPISKIN Human Skin Model Test, Result: not irritating, Regulation (EC) No. 761/2009, B.46., 0,25 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, Read-across (Analogy)
: LLNA, Mouse, Result: not sensitising, OECD Test Guideline



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- 429, 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
 - : Read-across (Analogy)
 - : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
 - : Read-across (Analogy)
 - : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes
 - : Read-across (Analogy)
 - : Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity
 - : Read-across (Analogy)
 - : Rat, Exposure time: 2 a, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Reproductive toxicity
 - : Read-across (Analogy)
 - : rat / mouse, Oral, Based on available data, the classification criteria are not met.
- Teratogenicity
 - : Not classified due to lack of data.
 - : Study in progress (external)
- STOT - single exposure
 - : Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure
 - : Read-across (Analogy)
- STOT - repeated exposure
 - : Guinea pig, Oral, Exposure time: 30 d, LOAEL: 50 mg/kg
- STOT - repeated exposure
 - : Read-across (Analogy)
- STOT - repeated exposure
 - : Rat, Oral, Exposure time: 92 d, NOAEL: 61,1 mg/kg, 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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Dibenzoyl methane :

- Acute oral toxicity : LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 423, GLP: yes, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : study scientifically unjustified
- Acute dermal toxicity : LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 402, GLP: yes
- Skin corrosion/irritation : in vitro assay, 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: not irritating, OECD Test Guideline 405, Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation : Skin sensitisation
 - : LLNA, Mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
 - : 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, GLP: yes
 - : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: positive, OECD Test Guideline 476, GLP: yes
 - : Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: positive, OECD Test Guideline 487, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity : Not classified due to lack of data.
- Reproductive toxicity : Not classified due to lack of data.
- Teratogenicity : Not classified due to lack of data.
- STOT - single exposure : Remarks: Not classified due to lack of data.
- STOT - repeated exposure : Not classified due to lack of data.
- 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



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Barium compounds :

- Acute oral toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2000 mg/kg bw, Rat, OECD Test Guideline 402, GLP: yes, 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, Read-across (Analogy)
: LLNA, Mouse, Result: not sensitising, OECD Test Guideline 429, 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 : Read-across (Analogy)
: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
: Read-across (Analogy)
: In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes
: Read-across (Analogy)
: Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity : Read-across (Analogy)
: Rat, Exposure time: 2 a, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Reproductive toxicity : Read-across (Analogy)
: Rat, Oral, Based on available data, the classification criteria



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- are not met.
- Teratogenicity : Not classified due to lack of data.
: Study in progress (external)
- STOT - single exposure : Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : Rat, Oral, Exposure time: 92 d, NOAEL: 61,1 mg/kg, 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

2-(2-Butoxyethoxy) ethanol :

- 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 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: Moderate eye irritation, OECD Test Guideline 405, GLP: no
- Respiratory or skin sensitisation : Skin sensitisation
: Maximisation Test (GPMT), Guinea pig, Result: not sensitising, OECD Test Guideline 406, Based on available data, the classification criteria are not met.
: Respiratory sensitisation, Not classified due to lack of data.



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- 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, CHO, Result: negative, OECD Test Guideline 476, GLP: yes
: Mutagenicity (in vitro mammalian cytogenetic test), CHO, 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 : One-generation reproduction toxicity test, Rat, Skin contact, OECD Test Guideline 415
: One-generation reproduction toxicity test, Rat, Oral, OECD Test Guideline 415, 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, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Rat, Dermal, standardised international/national methodology, Based on available data, the classification criteria are not met.
- 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
- Barium compounds :**
- Acute oral toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4



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Acute inhalation toxicity	: Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
Acute dermal toxicity	: Not classified due to lack of data.
Skin corrosion/irritation	: Not classified due to lack of data.
Serious eye damage/eye irritation	: Not classified due to lack of data.
Respiratory or skin sensitisation	: Skin sensitisation, Not classified due to lack of data. : Respiratory sensitisation, Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	: Not classified due to lack of data.
Carcinogenicity	: Not classified due to lack of data.
Reproductive toxicity	: Not classified due to lack of data.
STOT - single exposure	: Remarks: Not classified due to lack of data.
STOT - repeated exposure	: Not classified due to lack of data.
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
Isodecyl diphenyl phosphite :	
Acute oral toxicity	: LD50: 3.840 mg/kg, rat, standardised international/national methodology, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: LC50: > 8,4 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: rabbit, Result: slight irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: rabbit, Result: Mild eye irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation : Maximisation Test, guinea pig, Result: Sensitising,



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	standardised international/national methodology
	: 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
	: DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, 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	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, rat, Exposure time: 16 w, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: rat, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, 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, Exposure time: 16 w, NOAEL: 15 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
Triisodecyl phosphite :	
Acute oral toxicity	: LD50: 13.800 mg/kg, rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Read-across (Analogy)
	: LC50: > 12,6 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP:



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	: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: rabbit, Result: slight irritation, standardised international/national methodology, 24 h, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: rabbit, Result: not irritating, standardised international/national methodology, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy) : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes : Read-across (Analogy) : DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, 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	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, rat, Oral, Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, 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, NOAEL: 1.000 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



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11.2 Carcinogenicity

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

12. Ecological information

12.1 Toxicity

Components:

Diisodecyl phenyl phosphite :

- Toxicity to fish : > 100 mg/l, 48 h, *Leuciscus idus* (Golden orfe), static test, OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50: 0,2 mg/l, 48 h, *Daphnia magna* (Water flea), static test, OECD Test Guideline 202, GLP: yes
- Toxicity to algae : EC50: 45 mg/l, 72 h, *Desmodesmus subspicatus* (green algae), static test, OECD Test Guideline 201, GLP: yes

Ecotoxicology Assessment

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

Distillates (petroleum), hydrotreated light :

- Toxicity to fish : LL50: 2,5 mg/l, 96 h, *Oncorhynchus mykiss* (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes, Value referred to the Water accumulated fraction (WAF).
- Toxicity to daphnia and other aquatic invertebrates : EL50: 1,4 mg/l, 48 h, *Daphnia magna* (Water flea), static test, OECD Test Guideline 202, GLP: yes, Value referred to the Water accumulated fraction (WAF).
- Toxicity to algae : EL50: 1,3 mg/l, 72 h, *Pseudokirchneriella subcapitata* (green algae), static test, OECD Test Guideline 201, GLP: yes, Value referred to the Water accumulated fraction (WAF).
- Toxicity to bacteria : LL50: 677,9 mg/l, 72 h, *Tetrahymena pyriformis*, QSAR, GLP: no
- Toxicity to fish (Chronic toxicity) : NOEL: 0,098 mg/l, 28 d, *Oncorhynchus mykiss* (rainbow trout), QSAR, GLP: no
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 0,48 mg/l, 21 d, *Daphnia magna* (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes, Value referred to the Water accumulated fraction (WAF).

Barium compounds :

- Toxicity to fish :
Read-across (Analogy)



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- : LC50: > 97.5 mg Ba/L, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates :
 - : Read-across (Analogy)
 - : LC50: 14,5 mg Ba/L, 48 h, Daphnia magna (Water flea), static test
- Toxicity to algae :
 - : Read-across (Analogy)
 - : EC50: >= 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
 - :
 - : Read-across (Analogy)
 - : NOEC: >= 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria :
 - : Read-across (Analogy)
 - : EC50: >= 500,61 mg Ba/L, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
 - : Read-across (Analogy)
 - : EC16: 5,8 mg Ba/l, 21 d, Daphnia magna (Water flea), semi-static test

Ecotoxicology Assessment

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

Barium compounds :

- Toxicity to fish :
 - : Read-across (Analogy)
 - : LC50: > 97.5 mg Ba/L, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates :
 - : Read-across (Analogy)
 - : LC50: 14,5 mg Ba/L, 48 h, Daphnia magna (Water flea), static test
- Toxicity to algae :
 - : Read-across (Analogy)
 - : NOEC: >= 34,31 mg Ba/L, 72 h, Pseudokirchneriella



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- subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria :
 - Read-across (Analogy)
 - : NOEC: $\geq 500,61$ mg Ba/L, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
 - Read-across (Analogy)
 - EC16: 5,8 mg/l, 21 d, Daphnia magna (Water flea), semi-static test

Ecotoxicology Assessment

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

Barium compounds :

- Toxicity to fish :
 - Read-across (Analogy)
 - : LC50: $> 97,5$ mg Ba/L, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates :
 - Read-across (Analogy)
 - : LC50: 14,5 mg Ba/L, 48 h, Daphnia magna (Water flea), static test
- Toxicity to algae :
 - Read-across (Analogy)
 - : NOEC: $\geq 34,31$ mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
 - : EC50: $> 34,31$ mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria :
 - Read-across (Analogy)
 - : NOEC: $\geq 500,61$ mg Ba/L, 3 h, activated sludge, static test, OECD Test Guideline 209, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
 - Read-across (Analogy)
 - EC16: 5,8 mg Ba/l, 21 d, Daphnia magna (Water flea), semi-static test

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.

Dibenzoyl methane :

Toxicity to fish : LC50: 11,313 mg/l, 96 h, QSAR

Toxicity to daphnia and other aquatic invertebrates : LC50: 7,519 mg/l, 48 h, QSAR

Toxicity to algae : 2,68 mg/l, 96 h, QSAR

Ecotoxicology Assessment

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

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

Barium compounds :

Toxicity to fish :
Read-across (Analogy)
: LC50: > 97.5 mg Ba/L, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203, GLP: yes

Toxicity to daphnia and other aquatic invertebrates :
Read-across (Analogy)
: LC50: 14,5 mg Ba/L, 48 h, Daphnia magna (Water flea), static test

Toxicity to algae :
Read-across (Analogy)
: NOEC: >= 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
: EC50: > 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes

Toxicity to bacteria :
Read-across (Analogy)
: NOEC: >= 500,61 mg Ba/L, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
Read-across (Analogy)
EC16: 5,8 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211

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.

2-(2-Butoxyethoxy) ethanol :

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.

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

Barium compounds :

Toxicity to fish :
No data available

Toxicity to daphnia and other aquatic invertebrates :
No data available

Toxicity to algae :
No data available

Toxicity to bacteria :
No data available

Isodecyl diphenyl phosphite :

Toxicity to fish :
study technically not feasible

Toxicity to daphnia and other aquatic invertebrates :
study technically not feasible

Toxicity to algae :
study technically not feasible

Toxicity to bacteria :
study technically not feasible

Ecotoxicology Assessment

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

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

Triisodecyl phosphite :

Toxicity to fish : study technically not feasible

Toxicity to daphnia and other aquatic invertebrates : study technically not feasible

Toxicity to algae :



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Toxicity to bacteria	:	study technically not feasible
Toxicity to fish (Chronic toxicity)	:	study technically not feasible
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	study technically not feasible
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Components:

Diisodecyl phenyl phosphite :

Biodegradability : aerobic, 10 %, Result: Inherently biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301 B, GLP: yes

Distillates (petroleum), hydrotreated light :

Biodegradability : aerobic, 61 %, Result: Readily biodegradable, Exposure time: 28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

Barium compounds :

Biodegradability :
Read-across (Analogy)
: Result: Not readily biodegradable.,
Organic acids
:
The methods for determining biodegradability are not applicable to inorganic substances.

Barium compounds :

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

Barium compounds :

Biodegradability :
The methods for determining biodegradability are not applicable to inorganic substances.

Dibenzoyl methane :

Biodegradability : aerobic, 89 %, Result: Readily biodegradable, Exposure time:



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28 d, activated sludge, ISO 9439

Barium compounds :

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

2-(2-Butoxyethoxy) ethanol :

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

Barium compounds :

Biodegradability :
: The methods for determining biodegradability are not applicable to inorganic substances.

Isodecyl diphenyl phosphite :

Biodegradability : aerobic, 0,14 %, Exposure time: 28 d, activated sludge, OECD Test Guideline 301D, Not readily biodegradable.

Triisodecyl phosphite :

Biodegradability : aerobic, 0,47 %, Result: Not readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301D

12.3 Bioaccumulative potential

Components:

Diisodecyl phenyl phosphite :

Bioaccumulation : Bioconcentration factor (BCF): 33,27 - 606,5, QSAR

Distillates (petroleum), hydrotreated light :

Bioaccumulation :
: No data available

Barium compounds :

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

Barium compounds :

Bioaccumulation :
: Read-across (Analogy)
:
: Bioaccumulation is unlikely.

Barium compounds :

Bioaccumulation :
: Bioaccumulation is unlikely.

Dibenzoyl methane :

Bioaccumulation :



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- study scientifically unjustified
- Barium compounds :**
 - Bioaccumulation :
 - Read-across (Analogy)
 - Bioconcentration factor (BCF): 6,4 - 74,4, Barium
- 2-(2-Butoxyethoxy) ethanol :**
 - Bioaccumulation :
 - Bioaccumulation is unlikely.
- Barium compounds :**
 - Bioaccumulation :
 - No data available
- Isodecyl diphenyl phosphite :**
 - Bioaccumulation :
 - Bioconcentration factor (BCF): 606,5, QSAR
- Triisodecyl phosphite :**
 - Bioaccumulation :
 - study scientifically unjustified

12.4 Mobility in soil

Components:

Diisodecyl phenyl phosphite :

- Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

Distillates (petroleum), hydrotreated light :

- Mobility : QSAR, Predicted distribution to environmental compartments, Air
- Physico-chemical removability : The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e. g. mechanical separation.

Barium compounds :

- Mobility : Not applicable

Barium compounds :

- Mobility :
 - Read-across (Analogy)
 - Predicted distribution to environmental compartments, Soil, Water

Barium compounds :

- Mobility : QSAR, Not applicable

Dibenzoyl methane :

- Mobility : No data available

Barium compounds :

- Mobility : No data available

2-(2-Butoxyethoxy) ethanol :

- Mobility : QSAR, Predicted distribution to environmental compartments, Water

Barium compounds :

- Mobility : No data available

Isodecyl diphenyl phosphite :

- Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil



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Triisodecyl phosphite :

Mobility : QSAR, Predicted distribution to environmental compartments,
Soil, Sediment

12.5 Results of PBT and vPvB assessment

Components:

Diisodecyl phenyl phosphite :

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

Distillates (petroleum), hydrotreated light :

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

Barium compounds :

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

Barium compounds :

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

Barium compounds :

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

Dibenzoyl methane :

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

Barium compounds :

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

2-(2-Butoxyethoxy) ethanol :

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

Barium compounds :

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

Isodecyl diphenyl phosphite :

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

Triisodecyl phosphite :

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

12.6 Other adverse effects

Diisodecyl phenyl phosphite :

Further information : No information available.

Distillates (petroleum), hydrotreated light :

Further information : No information available.

Barium compounds :

Further information : No information available.

Barium compounds :

Further information : No information available.

Barium compounds :

Further information : No information available.

Dibenzoyl methane :

Further information : No information available.



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Barium compounds :

Further information : No information available.

2-(2-Butoxyethoxy) ethanol :

Further information : No information available.

Barium compounds :

Further information : No information available.

Isoodecyl diphenyl phosphite :

Further information : No information available.

Triisodecyl phosphite :

Further information : No information available.

13. Disposal considerations

13.1 Waste treatment methods

Product/packaging : Dispose of contents/container in accordance with local/regional/national/international/regulations.

14. Transport information

14.1 UN number

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods



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14.4 Packing group

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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 : No transport according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Section 313 Supplier Notification (USA)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Component	CAS/313 Category Code	Wt (%)
Barium compounds	N040	24.6
Zinc compounds	N982	16.1
Glycol ethers	N230	1.8



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National Legislation:

Registration Status:

EINECS : listed
TSCA : listed
DSL : listed
ECL : listed

16. Other information

Date of Preparation or last change: 18.07.2017

HMIS Rating (USA)

Health : 2
Flammability : 1
Reactivity : 1
Personal Protection : G

Full text of H-Statements

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
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.