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

1.1 Product identifier

Trade name	:	B 1733
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
	:	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.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360Fd: May damage fertility. Suspected of damaging the unborn child.
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

Hazard statements	:	H304	May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.

		H317	May cause an allergic skin reaction.
		H319	Causes serious eye irritation.
		H360Fd	May damage fertility. Suspected of damaging the unborn child.
		H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	:	**Prevention:**	
		P201	Obtain special instructions before use.
		P280	Wear protective gloves.
		P281	Use personal protective equipment as required.
		Response:	
		P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
		P308 + P313	IF exposed or concerned: Get medical advice/ attention.
		P331	Do NOT induce vomiting.

2.3 Other hazards

Combustible material
May produce an allergic reaction.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation
Contains organic solvents.

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Isodecyl diphenyl phosphite	26544-23-0	< 20*
Diisodecyl phenyl phosphite	25550-98-5	< 20*
Barium, carbonate nonylphenol complexes	68515-89-9	< 20*
Distillates (petroleum), hydrotreated light	64742-47-8	< 25*
Zinc bis(2-ethylhexanoate)	136-53-8	< 10*
Triisodecyl phosphite	25448-25-3	< 10*
Hydrocarbons, C9, aromatics	64742-95-6	< 25*
Phenol, 2,4-Bis (1-methyl-1-phenylethyl) -	2772-45-4	< 10*
Isodecanol (mixed isomers)	25339-17-7	< 10*
Triisotridecyl phosphite	68610-62-8	< 10*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Barium 4-(1,1-dimethylethyl)benzoate	10196-68-6	< 10*
Dibenzoyl methane	128-37-0	< 10*

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

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	:	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.
Further information	:	Release of Phenol by hydrolysis.

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	:	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.

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/m³	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/m³	0.5 mg/m³	0.5 mg/m³
2-(2-butoxyethoxy) ethanol	112-34-5					10 ppm
Distillates (Petroleum), hydrotreated light	64742-47-8					200 mg/m³
Particulates Not Otherwise Regulated (PNOR) Respirable fraction			5	5 mg/m³		3 mg/m³

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: >= 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
Color	:	yellowish-orange
Odor	:	characteristic
pH	:	No data available
Boiling point/boiling range	:	140 - 200 °C, ASTM D86, Value refers to the solvent.
Flash point	:	> 100 °C
Lower explosion limit	:	ca. 0,7 %(V), Value refers to the solvent.
Upper explosion limit	:	ca. 7,0 %(V), Value refers to the solvent.
Vapor pressure	:	< 10 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	:	> 400 °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

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 : 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

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

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

Components:

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, 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

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.
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, Based on available data, the classification criteria are not met.
	:	Likely route of exposure, Inhalation, Ingestion, Skin contact

Barium, carbonate nonylphenol complexes :

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
Further information	:	CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Not classified due to lack of data.
	:	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: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes, Based on available data, the classification criteria are not met.
	:	Respiratory sensitisation
	:	Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro	:	Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471
	:	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
	:	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
	:	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.
	:	Likely route of exposure, Inhalation, Ingestion, Skin contact

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.
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

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: 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

Hydrocarbons, C9, aromatics :

Acute oral toxicity	:	LD50: 3.492 mg/kg, Rat, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	LC50: > 6,193 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: > 3.160 mg/kg, Rabbit, OECD Test Guideline 402, GLP: no, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:	Rabbit, 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 (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	:	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, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat, Inhalation, OECD Test Guideline 475, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	:	Not classified due to lack of data.
Reproductive toxicity	:	Reproduction Test, Rat, Inhalation, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	:	Mouse, Inhalation, GLP: yes, Based on available data, the classification criteria are not met.
STOT - single exposure	:	Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.
	:	Exposure routes: Inhalation Target Organs: Central nervous system Assessment: May cause drowsiness or dizziness.
STOT - repeated exposure	:	Read-across (Analogy)
STOT - repeated exposure	:	Rat, Oral, OECD Test Guideline 408, Based on available data, the classification criteria are not met.
STOT - repeated exposure	:	Read-across (Analogy)
STOT - repeated exposure	:	Rat, Inhalation, OECD Test Guideline 452, 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

Triisotridecyl phosphite :

Acute oral toxicity	:	LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 425, GLP: yes, 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: 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
	:	LLNA, Mouse, Result: Weak sensitizer, 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
	:	Read-across (Analogy)
	:	DNA repair-suspension assay, Bacteria, Result: negative, No information available., GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	In vivo micronucleus test, Mouse, Oral, 2d, 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, Test period: 8 weeks, Oral, NOAEL: 1.000 mg/kg, standardised international/national methodology, 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, 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: 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
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 4-(1,1-dimethylethyl)benzoate :

Acute oral toxicity	:	Read-across (Analogy)
	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
Acute inhalation toxicity	:	Read-across (Analogy)
	:	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)
	:	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	:	Not classified due to lack of data.

Respiratory or skin sensitisation	:	Read-across (Analogy)
	:	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	:	
	:	Classification
	:	Labelling according to EC Directives
	:	Regulation (EC) No 1272/2008, Annex VI, Table 3.1
	:	May damage fertility.
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	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Specific target organ toxicity - repeated exposure, Category 1
Aspiration toxicity	:	Not classified due to lack of data.
Further information	:	CMR effects, Carcinogenicity, Mutagenicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	:	CMR effects, Reproductive toxicity, Read-across (Analogy), Category 1B
	:	Likely route of exposure, Ingestion, Inhalation, Skin contact

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

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:

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.

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.

Barium, carbonate nonylphenol complexes :

Ecotoxicology Assessment

Acute aquatic toxicity	:	Not classified due to lack of data.
Chronic aquatic toxicity	:	Not classified due to lack of data.

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 refered 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 refered 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 refered 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 refered to the Water accumulated fraction (WAF).

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 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.

Triisodecyl 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
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.

Hydrocarbons, C9, aromatics :

Toxicity to fish	:	LL50: 9,2 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes, Value refered to the Water accumulated fraction (WAF).
Toxicity to daphnia and other aquatic invertebrates	:	EL50: 3,2 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes, Value refered to the Water accumulated fraction (WAF).
Toxicity to algae	:	EL50: 2,9 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), Growth inhibition, OECD Test Guideline 201, GLP: yes, Value refered to the Water accumulated fraction (WAF).
Toxicity to bacteria	:	EC50: > 99 mg/l, 0,1 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes
Toxicity to fish (Chronic toxicity)	:	NOEL: 1,228 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR, GLP: no
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEL: 2,144 mg/l, 21 d, Daphnia magna (Water flea), QSAR, GLP: no

Triisotridecyl 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.

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 4-(1,1-dimethylethyl)benzoate :

Ecotoxicology Assessment

Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Read-across (Analogy), Toxic to aquatic life with long lasting effects.

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.

12.2 Persistence and degradability

Components:

Isodecyl diphenyl phosphite :

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

Diisodecyl phenyl phosphite :

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

Barium, carbonate nonylphenol complexes :

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

Distillates (petroleum), hydrotreated light :

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

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

Triisodecyl phosphite :

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

Hydrocarbons, C9, aromatics :

Biodegradability : aerobic, 78 %, Result: Readily biodegradable, Exposure time: 28 d, activated sludge, OECD Test Guideline 301 F, GLP: no

Triisotridecyl phosphite :

Biodegradability : aerobic, 63 %, Result: Inherently biodegradable., Exposure time: 42 d, activated sludge, OECD Test Guideline 301D, GLP: yes

2-(2-Butoxyethoxy) ethanol :

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

Barium 4-(1,1-dimethylethyl)benzoate :

Biodegradability :
no data available

Dibenzoyl methane :

Biodegradability : aerobic, 89 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, ISO 9439

12.3 Bioaccumulative potential

Components:

Isodecyl diphenyl phosphite :
Bioaccumulation : Bioconcentration factor (BCF): 606,5, QSAR

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

Barium, carbonate nonylphenol complexes :
Bioaccumulation :
Read-across (Analogy)
:
Bioaccumulation is unlikely.

Distillates (petroleum), hydrotreated light :
Bioaccumulation :
No data available

Zinc bis(2-ethylhexanoate) :
Bioaccumulation :
Read-across (Analogy), This substance is not considered to be bioaccumulating.

Triisodecyl phosphite :
Bioaccumulation :
study scientifically unjustified

Hydrocarbons, C9, aromatics :
Bioaccumulation :
study scientifically unjustified

Triisotridecyl phosphite :
Bioaccumulation :
Not applicable

2-(2-Butoxyethoxy) ethanol :
Bioaccumulation :
Bioaccumulation is unlikely.

Barium 4-(1,1-dimethylethyl)benzoate :
Bioaccumulation :
no data available

Dibenzoyl methane :
Bioaccumulation :
study scientifically unjustified

12.4 Mobility in soil

Components:

Isodecyl diphenyl phosphite :
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

Diisodecyl phenyl phosphite :
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

Barium, carbonate nonylphenol complexes :
Mobility : No data available

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.

Zinc bis(2-ethylhexanoate) :

Mobility	:	Not applicable

Triisodecyl phosphite :

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

Hydrocarbons, C9, aromatics :

Mobility	:	Predicted distribution to environmental compartments, Air

Triisotridecyl phosphite :

Mobility	:	QSAR, Predicted distribution to environmental compartments, Soil

2-(2-Butoxyethoxy) ethanol :

Mobility	:	QSAR, Predicted distribution to environmental compartments, Water

Dibenzoyl methane :

Mobility	:	no data available

12.5 Results of PBT and vPvB assessment

Components:

Isodecyl diphenyl phosphite :

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

Diisodecyl phenyl phosphite :

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

Barium, carbonate nonylphenol complexes :

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.

Zinc bis(2-ethylhexanoate) :

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

Triisodecyl phosphite :

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

Hydrocarbons, C9, aromatics :

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

Triisotridecyl phosphite :

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 4-(1,1-dimethylethyl)benzoate :

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

Dibenzoyl methane :

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

12.6 Other adverse effects

Isodecyl diphenyl phosphite :

Further information	:	No information available.

Diisodecyl phenyl phosphite :
Further information : No information available.

Barium, carbonate nonylphenol complexes :
Further information : No information available.

Distillates (petroleum), hydrotreated light :
Further information : No information available.

Zinc bis(2-ethylhexanoate) :
Further information : No information available.

Triisodecyl phosphite :
Further information : No information available.

Hydrocarbons, C9, aromatics :
Further information : No information available.

Triisotridecyl phosphite :
Further information : No information available.

2-(2-Butoxyethoxy) ethanol :
Further information : No information available.

Barium 4-(1,1-dimethylethyl)benzoate :
Further information : No information available.

Dibenzoyl methane :
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

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 : Not applicable

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	12.4
Zinc compounds	N982	7.6
Glycol ethers	N230	1.2

National Legislation:

Registration Status:

TSCA	:	listed

16. Other information

Date of Preparation or last change: 28.06.2018

HMIS Rating (USA)

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

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.