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

1.1 Product identifier

Trade name	:	**B 2684**
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

Acute toxicity, Category 4	H302: Harmful if swallowed.
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.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements	:	H302	Harmful if swallowed.
		H315	Causes skin irritation.
		H317	May cause an allergic skin reaction.
		H318	Causes serious eye damage.

	H341	Suspected of causing genetic defects.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P201	Obtain special instructions before use.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.

Response:

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

2.3 Other hazards

Combustible material
May produce an allergic reaction.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Contains organic solvents.

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Isodecyl diphenyl phosphite	26544-23-0	< 20*
Barium compounds*	Trade Secret*	< 25*
Phenol, 2,4-Bis (1-methyl-1-phenylethyl) -	2772-45-4	< 10*
Isodecanol (mixed isomers)	68526-85-2	< 10*
Distillates (petroleum), hydrotreated light	64742-47-8	< 10*
White mineral oil (petroleum)	8042-47-5	< 10*
Phenol, 2 - (1-Methyl-1-phenylethyl) -4 - (1,1,3,3-Tetramethyl-butyl) -	73936-80-8	< 10*
4 - (α, α-dimethylbenzyl) phenol	599-64-4	< 10*
Diisodecyl phenyl phosphite	25550-98-5	< 20*
Dibenzoyl methane	120-46-7	< 10*
2,6-di-tert-butyl-p-cresol	128-37-0	< 10*
Zinc compounds*	Trade Secret*	< 10*
Diphenyl phosphite	4712-55-4	< 10*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Triisodecyl phosphite	25448-25-3	< 10*
Phenol	108-95-2	< 3*
Triphenyl phosphite	101-02-0	< 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
Phenol	108-95-2	5	19	5 ppm	5 ppm (C) 15.6 ppm [15-min]	5 ppm
White mineral oil (petroleum)	8042-47-5		5	5 mg/m³	5 mg/m³	5 mg/m³ (ST) 10 mg/m³
2,6-di-tert-Butyl-p-cresol	128-37-0		10		10 mg/m³	IHL: 2 mg/m³ (TLV)
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
Odor	:	characteristic
pH	:	No data available
Boiling point/boiling range	:	218 - 800 °C, Value refers to the solvent.
Flash point	:	> 100 °C
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapor pressure	:	0,1 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	:	325 - 355 °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	:	Vapours may form explosive mixture with air.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products	:	No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	:	Acute toxicity estimate: 1.725 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

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
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

White mineral oil (petroleum) :

Acute oral toxicity	:	LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	LC50: > 5 mg/l, 4 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: not irritating, OECD Test Guideline 404, 24 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
	:	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
	:	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, mouse lymphoma cells, Result: negative, OECD Test Guideline 476
	:	Read-across (Analogy)
	:	Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.

Genotoxicity in vivo	:	Read-across (Analogy)
	:	In vivo micronucleus test, Mouse, intraperitoneally, OECD Test Guideline 474, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	:	Mouse, Dermal, OECD Test Guideline 453
	:	Rat, Oral, OECD Test Guideline 453, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	:	Screening for reproductive/developmental toxicity, Rat, Dermal, NOAEL: >= 1.000 mg/kg, OECD Test Guideline 421
	:	One-generation reproduction toxicity test, Rat, Dermal, NOAEL: >= 2.000 mg/kg, OECD Test Guideline 415, Based on available data, the classification criteria are not met.
Teratogenicity	:	Rat, Oral, NOAEL: > 5.000 mg/kg, OECD Test Guideline 414, Based on available data, the classification criteria are not met.
STOT - repeated exposure	:	Rat, Oral, NOAEL: >= 1.200 mg/kg, OECD Test Guideline 453, GLP: yes
STOT - repeated exposure	:	Rat, Inhalation, OECD Test Guideline 412
STOT - repeated exposure	:	Rat, Dermal, NOAEL: >= 2.000 mg/kg, OECD Test Guideline 411, 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

4 - (α, α-dimethylbenzyl) phenol :

Acute oral toxicity	:	LD50: 1.770 mg/kg, Rat

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: negative, 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), Chinese hamster ovary cells, 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 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

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

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

2,6-di-tert-butyl-p-cresol :

Acute oral toxicity	:	LD50: > 2.930 mg/kg, Rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:	Rabbit, Result: slight irritation, 24 h, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	:	Rabbit, Result: slight irritation, 72 h, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	:	Skin sensitisation
	:	Patch Test 24 Hrs., Humans, Result: negative, standardised international/national methodology, 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, GLP: no
	:	Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: negative, GLP: no
	:	In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: contradictive, GLP: no

	:	In vitro gene mutation study in mammalian cells, Liver cells (rat), Result: negative, GLP: no, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	In vivo micronucleus test, Mouse, GLP: no, Result: negative
	:	Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat, Oral, 9 months, GLP: no, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	:	Rat, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	:	Rat, Oral, Test period: 22 months, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	:	Rat, Test period: 22 months, Oral, 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	:	Rat, Oral, standardised international/national methodology, 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 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: > 2.000 mg/kg, Rat, OECD Test Guideline 402, 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	:	in vitro assay, Result: Causes serious eye damage., OECD

irritation		Test Guideline 437, 240 min, GLP: yes
Respiratory or skin sensitisation	:	Skin sensitisation
	:	Read-across (Analogy), Based on available data, the classification criteria are not met.
	:	Respiratory 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	:	Read-across (Analogy)
	:	Suspected of damaging the unborn child.
STOT - single exposure	:	Remarks: Not classified due to lack of data.
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

Zinc compounds :

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

Zinc compounds :

Acute oral toxicity	:	LD50: 1.100 mg/kg, Rat, OECD Test Guideline 401, GLP: no, Test substance: Solid
Acute inhalation toxicity	:	LC50: 2000 mg/m³ air, 10 min, Rat, GLP: no, Test substance: aerosol, Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	Read-across (Analogy)
	:	LD50: > 2.000 mg/kg, Rabbit, OECD Test Guideline 402, GLP: yes, Test substance: Solid, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:	Causes severe burns.
Serious eye damage/eye irritation	:	Causes severe burns.

Respiratory or skin sensitisation	:	Skin sensitisation
	:	Read-across (Analogy)
	:	LLNA, Mouse, Result: negative, 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
	:	In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative
	:	Chromosome aberration test in vitro, human cells, Result: negative, 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, 1 m, Result: positive
	:	Genotoxicity in vivo, Drosophila melanogaster, Oral, 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	:	Two-generation reproductive toxicity, Rat, Oral, NOAEL: 7,5 mg/kg, OECD Test Guideline 416, GLP: no, Test substance: Solid, Based on available data, the classification criteria are not met.
Teratogenicity	:	Read-across (Analogy)
	:	rat / mouse / rabbit / hamster, Oral, Based on available data, the classification criteria are not met.
STOT - single exposure	:	Assessment: May cause respiratory irritation.
STOT - repeated exposure	:	Read-across (Analogy)
STOT - repeated exposure	:	rat / mouse, Oral, Exposure time: 13 w, NOAEL: 3000 ppm in diet, OECD Test Guideline 408, GLP: no, Test substance: Solid
STOT - repeated exposure	:	Read-across (Analogy)
STOT - repeated exposure	:	Rat, Oral, Exposure time: 13 w, NOAEL: 31,52 mg/kg, OECD Test Guideline 408, GLP: yes, Test substance: Solid, 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, 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

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

Phenol :

Acute oral toxicity	:	LD50: 340 - 540 mg/kg, Rat, OECD Test Guideline 401
Acute inhalation toxicity	:	LC0: 0,9 mg/l, 8 h, Rat, dust/mist, OECD Test Guideline 403
	:	LC50: > 0,9 mg/l, 4 h, Rat, dust/mist, OECD Test Guideline 403
Acute dermal toxicity	:	LD50: 660 mg/kg bw, Rat(female), OECD Test Guideline 402

Skin corrosion/irritation	:	Result: irritating, Regulation (EC) No. 761/2009, B.46., 1 h, GLP: yes
	:	Result: Corrosive, OECD Test Guideline 431, 3 min - 1 h, GLP: yes
	:	Rabbit, Result: Corrosive, standardised international/national methodology, 24 h
	:	Rat, Result: Corrosive, 1 min
Serious eye damage/eye irritation	:	Rabbit, Result: Corrosive, OECD Test Guideline 405
Respiratory or skin sensitisation	:	Skin sensitisation
	:	Buehler Test, Guinea pig, Result: Does not cause skin sensitisation., OECD Test Guideline 406
	:	LLNA, Mouse, Result: negative, Based on available data, the classification criteria are not met.
	:	Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity		
Genotoxicity in vitro	:	Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	:	Mutagenicity (in vitro mammalian cytogenetic test), Chinese hamster ovary cells, Result: positive, OECD Test Guideline 473
Genotoxicity in vivo	:	In vivo micronucleus test, Mouse, 24 - 48 h, OECD Test Guideline 474, GLP: yes, Result: positive
Carcinogenicity	:	Mouse, Exposure time: 103 weeks, Oral, OECD Test Guideline 451
	:	Rat, Exposure time: 103 weeks, Oral, OECD Test Guideline 451, Based on available data, the classification criteria are not met.
Reproductive toxicity	:	Two-generation reproductive toxicity, Rat, Oral, OECD Test Guideline 416, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	:	Rat, Test period: 14 d, Oral, standardised international/national methodology, GLP: yes
	:	Mouse, Test period: 12 d, Oral, standardised international/national methodology, 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	:	May cause damage to organs through prolonged or repeated

exposure., Kidney, Liver, Nervous system, Skin, Heart, Immune system, Lungs, Bone marrow

: Remarks: Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Category 2

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

Triphenyl phosphite :

Acute oral toxicity : LD50: 1.590 mg/kg, rat, OECD Test Guideline 401, GLP: yes

Acute inhalation toxicity : LC50: > 6,7 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 : guinea pig, Result: slight irritation, standardised international/national methodology, 24 h

Serious eye damage/eye irritation : rabbit, Result: irritating, OECD Test Guideline 405, GLP: no

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, 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, Oral, NOAEL: F1: 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 bw/day, 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 weeks, 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

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.

Barium compounds :

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).

White mineral oil (petroleum) :

Toxicity to fish	:	LL50: > 100 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), static test, OECD Test Guideline 203, Value refered to the Water accumulated fraction (WAF).
Toxicity to daphnia and other aquatic invertebrates	:	LL50: >= 100 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, Value refered to the Water accumulated fraction (WAF).
Toxicity to algae	:	NOEL: >= 100 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, Value refered to the Water accumulated fraction (WAF).
Toxicity to bacteria	:	LOEL (lowest observed effect level): 93 d, Bacteria, standardised international/national methodology
Toxicity to fish (Chronic toxicity)	:	NOEL: >= 1.000 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Read-across (Analogy) NOEL: 10 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).

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.

Phenol, 2 - (1-Methyl-1-phenylethyl) -4 - (1,1,3,3-Tetramethyl-butyl) - :

Toxicity to fish	:	LC50: 1 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

4 - (α, α-dimethylbenzyl) phenol :

Toxicity to bacteria	:	EC50: 1,4 mg/l, 72 h

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.
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.

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.

2,6-di-tert-butyl-p-cresol :

Toxicity to fish	:	LC0: >= 0,57 mg/l, 96 h, Danio rerio (zebra fish), semi-static test, Directive 67/548/EEC, Annex V, C.1., GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	NOEC: 0,15 - 0,23 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
Toxicity to algae	:	EC50: > 0,4 mg/l, 72 h, Desmodesmus subspicatus (green algae), static test, Directive 67/548/EEC, Annex V, C.3., GLP: yes
Toxicity to bacteria	:	EC50: > 10.000 mg/l, 3 h, activated sludge, Respiration inhibition, standardised international/national methodology, GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC50: 0,39 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, standardised international/national methodology, GLP: yes NOEC: 0,316 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, standardised international/national methodology, GLP: yes

Barium compounds :

Toxicity to fish	:	Read-across (Analogy)
	:	EC50: > 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, 96 h, Daphnia magna (Water flea), static test, standardised international/national methodology
Toxicity to algae	:	Read-across (Analogy)
	:	EC50: > 34,3 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 mg Ba/L, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, 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.

Zinc compounds :

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.

Zinc compounds :

Toxicity to fish	:	Read-across (Analogy) LC50: 0,169 mg Zn/L, 96 h, Oncorhynchus mykiss (rainbow trout)
	:	Read-across (Analogy) LC50: 0,330 - 0,780 mg Zn/L, 96 h, Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	:	Read-across (Analogy) LC50: 0.147 - > 0,53 mg Zn/l, Ceriodaphnia dubia (water flea)
Toxicity to algae	:	Read-across (Analogy) IC50: 0,136 mg Zn/L, 72 h, Selenastrum capricornutum (green algae)
Toxicity to bacteria	:	Read-across (Analogy) EC50: 5,2 mg Zn/l, 3 h, activated sludge
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	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

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	:	NOEC: >= 100 mg/l, 48 h, Daphnia magna (Water flea), static

aquatic invertebrates		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.

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.

Phenol :

Toxicity to fish	:	NOEC: 4 mg/l, 14 d, Poecilia reticulata (guppy), semi-static test, OECD Test Guideline 204, GLP: yes
	:	LC50: 8,9 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), flow-through test, standardised international/national methodology
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 3,1 mg/l, 48 h, Ceriodaphnia dubia (water flea), static test, standardised international/national methodology, GLP: no
Toxicity to algae	:	EC50: 61,1 mg/l, 96 h, Pseudokirchneriella subcapitata (green algae), static test, standardised international/national methodology
	:	EC50: 157 mg phenol/L, 7 d, Lemna minor (duckweed), static test, standardised international/national methodology, GLP: no
	:	EC50: 61,82 mg/L, 7 d, Lemna minor (duckweed), Growth

inhibition, standardised international/national methodology, GLP: yes

Toxicity to bacteria	:	IC50: 21 mg/l, 24 h, Bacteria, GLP: no
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,077 mg/l, 60 d, Cirrhina mrigala, semi-static test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,16 mg/l, 16 d, Daphnia magna (Water flea), semi-static test, standardised international/national methodology

Triphenyl 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 scientifically unjustified

Ecotoxicology Assessment

Acute aquatic toxicity	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life.
Chronic aquatic toxicity	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life with long lasting effects.

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.

Barium compounds :

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 301F, GLP: yes

White mineral oil (petroleum) :

Biodegradability	:	Read-across (Analogy)

: aerobic, 31 %, Result: Inherently biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301F, GLP: yes

Barium compounds :

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

Diisodecyl phenyl phosphite :

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

Dibenzoyl methane :

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

2,6-di-tert-butyl-p-cresol :

Biodegradability : aerobic, Result: Readily biodegradable, Exposure time: 112 d, activated sludge, OECD Test Guideline 301, GLP: no

: aerobic, Biochemical oxygen demand, Result: Partially biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301

: aerobic, Result: Biodegradable, Exposure time: 24 d, Soil, OECD Test Guideline 304A, GLP: no,
According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Barium compounds :

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

Zinc compounds :

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

Zinc compounds :

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

2-(2-Butoxyethoxy) ethanol :

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

Triisodecyl phosphite :

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

Phenol :

Biodegradability : Ready biodegradability, Result: Readily biodegradable, Exposure time: 10 d, activated sludge, OECD Test Guideline 301

: aerobic, Result: Biodegradable, Exposure time: 20 d, Marine water

: anaerobic, Result: Biodegradable, Exposure time: 50 d, activated sludge, standardised international/national methodology

: aerobic, Result: Readily biodegradable, Exposure time: 3 d, Estuary sediment, standardised international/national methodology

: anaerobic, Result: Biodegradable, Exposure time: 42 d, activated sludge, standardised international/national methodology

: aerobic, Result: Biodegradable, Exposure time: 70 d, Soil

Triphenyl phosphite :

Biodegradability : aerobic, 2,46 %, Result: Not readily biodegradable., Exposure time: 28 d, OECD Test Guideline 301D, GLP: No information available.

12.3 Bioaccumulative potential

Components:

Isodecyl diphenyl phosphite :

Bioaccumulation : Bioconcentration factor (BCF): 606,5, QSAR

Barium compounds :

Bioaccumulation :

Read-across (Analogy)

:

Bioaccumulation is unlikely.

Distillates (petroleum), hydrotreated light :

Bioaccumulation :

No data available

White mineral oil (petroleum) :

Bioaccumulation :

No data available

Barium compounds :
Bioaccumulation :

Read-across (Analogy)
: Bioconcentration factor (BCF): 6,4 - 74,4,
Barium

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

Dibenzoyl methane :
Bioaccumulation :

study scientifically unjustified

2,6-di-tert-butyl-p-cresol :
Bioaccumulation : Cyprinus carpio (Carp), Exposure time: 28 d, 25 °C, Concentration: 0,005 mg/l, Bioconcentration factor (BCF): 330 - 1.800, standardised international/national methodology

: Cyprinus carpio (Carp), Exposure time: 56 d, 25 °C, Concentration: 0,05 mg/l, Bioconcentration factor (BCF): 230 - 2.500, standardised international/national methodology

Barium compounds :
Bioaccumulation :

Read-across (Analogy)
:

This substance is not considered to be bioaccumulating.

Zinc compounds :
Bioaccumulation :

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

Zinc compounds :
Bioaccumulation :

Bioaccumulation is unlikely.

2-(2-Butoxyethoxy) ethanol :
Bioaccumulation :

Bioaccumulation is unlikely.

Triisodecyl phosphite :
Bioaccumulation :

study scientifically unjustified

Phenol :
Bioaccumulation : Fish, Exposure time: 5 h, 25 °C, Bioconcentration factor (BCF): 17,5, standardised international/national methodology, Bioaccumulation is unlikely.

Triphenyl phosphite :
Bioaccumulation : Bioconcentration factor (BCF): 862,2 - 10.902, QSAR, Hydrolysis, not considered

12.4 Mobility in soil

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

Barium compounds :

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.

White mineral oil (petroleum) :

Mobility : The product is insoluble and floats on water.

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

Barium compounds :

Mobility : No data available

Diisodecyl phenyl phosphite :

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

Dibenzoyl methane :

Mobility : No data available

2,6-di-tert-butyl-p-cresol :

Mobility : After release, disperses into the air.

Barium compounds :

Mobility : Not applicable

Zinc compounds :

Mobility : Not applicable

Zinc compounds :

Mobility : No data available

2-(2-Butoxyethoxy) ethanol :

Mobility : QSAR, Predicted distribution to environmental compartments, Water

Triisodecyl phosphite :

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

Phenol :

Mobility : Predicted distribution to environmental compartments, Water

Triphenyl phosphite :

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

12.5 Results of PBT and vPvB assessment

Components:

Isodecyl diphenyl phosphite :

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

Barium compounds :

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.

White mineral oil (petroleum) :

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

Barium compounds :

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.

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

2,6-di-tert-butyl-p-cresol :
Assessment : Based on available data, the classification criteria are not met.

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

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

Zinc 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.

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

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

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

12.6 Other adverse effects

Isodecyl diphenyl phosphite :
Further information : No information available.

Barium compounds :
Further information : No information available.

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

White mineral oil (petroleum) :
Further information : No information available.

Barium compounds :
Further information : No information available.

Diisodecyl phenyl phosphite :
Further information : No information available.

Dibenzoyl methane :
Further information : No information available.

2,6-di-tert-butyl-p-cresol :
Further information : No information available.

Barium compounds :
Further information : No information available.

Zinc compounds :
Further information : No information available.

Zinc compounds :
Further information : No information available.

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

Triisodecyl phosphite :
Further information : No information available.

Phenol :
Further information : No information available.

Triphenyl 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

14.2 Proper shipping name
DOT
Not dangerous goods

14.3 Transport hazard class
DOT
Not dangerous goods

14.4 Packing group
DOT
Not dangerous goods

14.5 Environmental hazards
DOT
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

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

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	21.1
Zinc compounds	N982	7.9
Glycol ethers	N230	1.9
Phenol		0.13 - 1.39

National Legislation:

Registration Status:

United States	TSCA	:	listed

15.2 Chemical safety assessment

This information is not available.

16. Other information

Date of Preparation or last change: 16.06.2017

HMIS Rating (USA)

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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.