## BAERLOCHER

### B 1791

Version 1.1 Revision Date 29.07.2015

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

#### 1.1 Product identifier

Trade name : B 1791

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 : Manufacture of plastics products

Substance/Mixture Polymer additive

Stabilizer

Restrictions on Use : None known

### 1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC

5890 Highland Ridge Drive

Cincinnati, OH 45232

Telephone : Day 330-602-1528, 330-602-1531 or -1530

: Night 513-207-1620 or 513-604-2327

E-mail address : Hotline.PS@baerlocher.com Responsible/issuing person : Product Safety Department

#### 1.4 Emergency telephone number (0 - 24 h)

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

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting

effects.

### 2.2 Label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child. H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : **Prevention:** 

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	P201	Obtain special instructions before use.		
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.		
	P273	Avoid release to the environment.		
	P280	Wear protective gloves.		
	Response:			
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.		
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.		

### 2.3 Other hazards

The product is combustible. May produce an allergic reaction.

### 3. Composition/information on ingredients

### 3.2 Mixtures

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

solvent.

### **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
Barium compounds	Trade Secret*	< 20*
Zinc compounds	Trade Secret*	< 10*
Isodecyl diphenyl phosphite	26544-23-0	< 25*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Triisodecyl phosphite	25448-25-3	< 10*
Distillates (petroleum), hydrotreated light	64742-47-8	< 10*
Triphenyl phosphite	101-02-0	< 5*
Diisodecyl phenyl phosphite	25550-98-5	< 5*
Dibenzoyl methane	120-46-7	< 5*

<sup>\*</sup>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.

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If swallowed : Consult a doctor and show this safety datasheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

### 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.

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.

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#### 6.4 Reference to other sections

For personal protection see section 8.

### 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Provide sufficient air exchange and/or exhaust in work rooms.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated

place.

Further information on storage conditions

: Handle in accordance with good industrial hygiene and safety

practice.

German storage class : 10 Combustible liquids

### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

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### 8. Exposure controls/personal protection

### 8.1 Control parameters

		ſ	Regulatory	Limits	Recommer	nded Limits
				Cal/OSHA		
		OSF	IA PEL	PEL	NIOSH REL	ACGIH TLV
					Up to 10-	
				8-hour	hour	
				TWA	TWA	8-hour TWA
				(ST) STEL	(ST) STEL	(ST) STEL
Substance	CAS No.	ppm	mg/m <sup>3</sup>	(C) Ceiling	(C) Ceiling	(C) Ceiling
Barium, soluble compounds (as Ba)	7440-39-3		0.5	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
2-(2-butoxyethoxy) ethanol	112-34-5					10 ppm
Distillates (Petroleum), hydrotreated light	64742-47-8					200 mg/m <sup>3</sup>
Particulates Not Otherwise Regulated (PNOR)						
Inhalable						10 mg/m <sup>3</sup>
Respirable fraction			5	5 mg/m³		3 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### **Engineering measures**

Local exhaust

### Personal protective equipment

Respiratory protection : In case of insufficient ventilation:

Protective mask against solvent vapours (A2 Filter)

Hand protection : protective gloves acc. to EN 374, e.g. neoprene, thickness:

min. 0,7 mm

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Rubber apron

Hygiene measures : When using do not eat or drink.

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Do not smoke.

Wash hands before breaks and at the end of workday.

Shower or bathe at the end of working. Keep working clothes separately.

Protective measures : antistatic shoes

### **Environmental exposure controls**

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

Avoid subsoil penetration.

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellowish
Odour : characteristic
pH : no data available

Boiling point/boiling range : 237 - 277 °C, Value refers to the solvent.

Flash point : > 100 °C

Lower explosion limit : ca. 0,5 %(V), Value refers to the solvent.

Upper explosion limit : ca. 4,6 %(V), Value refers to the solvent.

Vapour pressure : 0,03 hPa, 20 °C, Value refers to the solvent.

Density : 0,8 - 1,0 g/cm3

Water solubility : slightly soluble

Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : ca. 243 °C, Value refers to the solvent.

: no data available Ignition temperature Viscosity, dynamic : no data available : no data available Viscosity, kinematic Odor Threshold : No data available Melting/Freezing Point : No data available **Evaporation Rate** : No data available : No data available Flammability Vapor Density : No data available Decomposition Temperature : No data available

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#### 9.2 Other information

No data available

### 10. Stability and reactivity

### 10.1 Reactivity

Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Sources of ignition

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if used as directed.

### 11. Toxicological information

### 11.1 Information on toxicological effects

#### **Product**

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

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation

method

### **Components:**

**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

**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.

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sion 1.1	Revision Date 29.07.2015
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
Isodecyl diphenyl phosphite	<u>.</u>
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

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sian 4.4	
sion 1.1	Revision Date 29.07.2015
	403, GLP: yes, Based on available data, the classification criteria are not met.
Acute dermal toxicity	<ul> <li>LD50: &gt; 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.</li> </ul>
Skin corrosion/irritation	<ul> <li>rabbit, Result: slight irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.</li> </ul>
Serious eye damage/eye irritation	<ul> <li>rabbit, Result: Mild eye irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.</li> </ul>
Respiratory or skin sensitisation	: Skin sensitisation
	<ul> <li>Maximisation Test, guinea pig, Result: Sensitising, standardised international/national methodology</li> </ul>
	<ul> <li>Respiratory sensitisation, Based on available data, the classification criteria are not met.</li> </ul>
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	<ul> <li>rat, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.</li> </ul>
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.

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sion 1.1		Revision Date 29.07.2015
Further information	:	CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	:	Likely route of exposure, Inhalation, Ingestion, Skin contact
2-(2-Butoxyethoxy) ethanol :		
Acute oral toxicity	:	LD50: 2.410 mg/kg, mouse(male), OECD Test Guideline 401, GLP: no, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	LC50: > 0,35 mg/l, 4 h, rat, vapour, Expert judgement, > Saturated vapour concentration
	:	LC0: 0,35 mg/l, 14 d, rat, vapour, OECD Test Guideline 412, GLP: yes, > Saturated vapour concentration
	:	LC50: > 29 ppm, 2 h, rat, vapour, OECD Test Guideline 403, GLP: no, Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50: 2.764 mg/kg, rabbit, OECD Test Guideline 402, GLP: no, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:	rabbit, Result: slight irritation, OECD Test Guideline 404, 1 h, GLP: no, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	:	rabbit, Result: Moderate eye irritation, OECD Test Guideline 405, GLP: no
Respiratory or skin sensitisation	:	Skin sensitisation
	:	Maximisation Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, Based on available data, the classification criteria are not met.
	:	Respiratory sensitisation, Not classified due to lack of data.
Germ cell mutagenicity		
Genotoxicity in vitro	:	Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471
	:	In vitro gene mutation study in mammalian cells, CHO, Result: negative, OECD Test Guideline 476, GLP: yes
	:	Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), mouse, Oral, Single dose, OECD Test Guideline 475, Result: negative, Based on available data, the classification criteria are not met.
		Not classified due to lack of data.

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Reproductive toxicity	: One-generation reproduction toxicity test, rat, Skin contact, OECD Test Guideline 415
	: One-generation reproduction toxicity test, rat, Oral, OECD Test Guideline 415, Based on available data, the classification criteria are not met.
Teratogenicity	: rabbit, Skin contact, OECD Test Guideline 414
	: rat, Oral, OECD Test Guideline 414, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	<ul> <li>rat, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.</li> </ul>
STOT - repeated exposure	: rat, Dermal, standardised international/national methodology, Based on available data, the classification criteria are not met.
STOT - repeated exposure	<ul> <li>rat, Inhalation, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.</li> </ul>
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	<ul> <li>rabbit, Result: not irritating, standardised international/national methodology, Based on available data, the classification criteria are not met.</li> </ul>

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Respiratory or skin sensitisation	: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429 GLP: yes
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy)
	<ul> <li>Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471 GLP: yes</li> </ul>
	: 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 me
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 me
Carcinogenicity	: Based on available data, the classification criteria are not me
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 me
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not me
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
<b>Distillates (petroleum), hydr</b> Acute oral toxicity	<ul> <li>otreated light:</li> <li>: LD50: &gt; 5.000 mg/kg, rat, OECD Test Guideline 420, GLP: yes, Based on available data, the classification criteria are no met.</li> </ul>
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.

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rsion 1.1	Revision Date 29.07.2015
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	<ul> <li>rabbit, Result: irritating, standardised international/national methodology, 24 h, GLP: yes</li> </ul>
Serious eye damage/eye irritation	<ul> <li>rabbit, Result: not irritating, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.</li> </ul>
Respiratory or skin sensitisation	: Skin sensitisation
	: Buehler Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, GLP: yes, Based on available data, the classification criteria are not met.
	: Respiratory sensitisation
	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471
	: In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Genotoxicity in vivo, rat, intraperitoneally, OECD Test Guideline 478, Result: negative
	: Genotoxicity in vivo, mouse, intraperitoneally, OECD Test Guideline 478, Result: negative
	: Genotoxicity in vivo, mouse, Inhalation, OECD Test Guideline 478, Result: negative
	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, intraperitoneally, OECD Test Guideline 475, GLP: yes, Based on available data, the classification criteria are not met.
Carcinogenicity	: mouse, Skin contact, OECD Test Guideline 451, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	: One-generation reproduction toxicity test, rat, Oral
	: 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
	<ul> <li>rat, Oral, OECD Test Guideline 414, Based on available data, the classification criteria are not met.</li> </ul>
	: Assessment: May cause drowsiness or dizziness.

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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

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

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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:**

### **Barium Compounds:**

#### **Ecotoxicology Assessment**

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

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

**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

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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.

Isodecyl diphenyl phosphite:

Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae

study technically not feasible

study technically not feasible

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

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: EC10: > 1.995 mg/l, 0,5 h, activated sludge, Respiration Toxicity to bacteria

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 Toxicity to algae

study technically not feasible

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.

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).

: EL50: 1,3 mg/l, 72 h, Pseudokirchneriella subcapitata (green Toxicity to algae

algae), static test, OECD Test Guideline 201, GLP: yes, Value refered to the Water accumulated fraction (WAF).

: LL50: 677,9 mg/l, 72 h, Tetrahymena pyriformis, QSAR, GLP: Toxicity to bacteria

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).

**Ecotoxicology Assessment** 

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

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

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Dibenzoyl methane:

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

aquatic invertebrates

Toxicity to daphnia and other : 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:

**Zinc Compounds:** 

Biodegradability

Read-across (Analogy)

: aerobic, 70 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301D, GLP: yes

Isodecyl diphenyl phosphite:

: aerobic, 0,14 %, Exposure time: 28 d, activated sludge, OECD Biodegradability

Test Guideline 301D.

Not readily biodegradable.

2-(2-Butoxyethoxy) ethanol:

: aerobic, Result: Readily biodegradable., Exposure time: 28 d, Biodegradability

activated sludge, OECD Test Guideline 301, GLP: no

Triisodecyl phosphite:

Biodegradability : aerobic, 0.47 %, Result: Not readily biodegradable., Exposure

time: 28 d, activated sludge, OECD Test Guideline 301D

Distillates (petroleum), hydrotreated light:

Biodegradability : aerobic, 61 %, Result: Readily biodegradable., Exposure time:

28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

Dibenzoyl methane:

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

28 d, activated sludge, ISO 9439

12.3 Bioaccumulative potential

Components:

**Zinc Compounds:** 

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Bioaccumulation

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

be bioaccumulating.

Isodecyl diphenyl phosphite:

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

2-(2-Butoxyethoxy) ethanol:

Bioaccumulation

Bioaccumulation is unlikely.

Triisodecyl phosphite:

Bioaccumulation

study scientifically unjustified

Distillates (petroleum), hydrotreated light:

Bioaccumulation

no data available

Dibenzoyl methane:

Bioaccumulation

study scientifically unjustified

12.4 Mobility in soil

**Components:** 

**Zinc Compounds:** 

Mobility : not applicable

Isodecyl diphenyl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Sediment, Soil

2-(2-Butoxyethoxy) ethanol:

Mobility : QSAR, Predicted distribution to environmental compartments,

Water

Triisodecvl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Soil, Sediment

Distillates (petroleum), hydrotreated light :

Mobility : QSAR, Predicted distribution to environmental compartments,

Air

Dibenzoyl methane:

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Components:

**Zinc Compounds:** 

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

Isodecyl diphenyl phosphite:

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

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.

Distillates (petroleum), hydrotreated light:

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

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Dibenzoyl methane:

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

12.6 Other adverse effects

**Zinc Compounds:** 

Further information : No information available.

Isodecyl diphenyl phosphite:

Further information : No information available.

2-(2-Butoxyethoxy) ethanol:

Further information : No information available.

Triisodecyl phosphite:

Further information : No information available.

Distillates (petroleum), hydrotreated light:

Further information : No information available.

**Dibenzoyl methane:** 

Further information : No information available.

### 13. Disposal considerations

### 13.1 Waste treatment methods

Product : 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

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

**IBC Code** 

#### 15. Regulatory information

### **Section 313 Supplier Notification (USA)**

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

Component	CAS/313 Category Code	Wt (%)
Barium Compounds	N040	6.1
Zinc Compounds	N982	3.3

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### **National Legislation:**

### **Registration Status:**

**TSCA** Listed DSL Listed **EINECS** Listed **PICCS** Not Listed **ENCS** Not Listed **AICS** Listed **ECL** Listed **CHINA** Listed

#### 16. Other information

Date of Preparation or last change: 29.07.2015

**HMIS Rating (USA)** 

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

#### **Full text of H-Statements**

H302

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.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Harmful if swallowed.

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.

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