B 2410





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

1.1 Product identifier

Trade name : B 2410

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

: Baerlocher Production USA LLC Company

5890 Highland Ridge Drive

Cincinnati, OH 45232

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

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

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

1.4 Emergency telephone number (0 - 24 h)

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

2. Hazards identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Germ cell mutagenicity. Category 2 Reproductive toxicity, Category 1B Specific target organ toxicity - single

exposure, Category 3, Central nervous

system

Specific target organ toxicity - repeated

exposure, Category 2

Aspiration hazard, Category 1

Chronic aquatic toxicity, Category 2

H373: May cause damage to organs through

H341: Suspected of causing genetic defects.

H336: May cause drowsiness or dizziness.

prolonged or repeated exposure.

H315: Causes skin irritation.

H360F: May damage fertility.

H319: Causes serious eye irritation. H317: May cause an allergic skin reaction.

H304: May be fatal if swallowed and enters

airways.

H411: Toxic to aquatic life with long lasting effects.

Toxic to Reproduction Category 2

Harmful

R60: May impair fertility.

R65: Harmful: may cause lung damage if

swallowed.

R20/22: Harmful by inhalation and if swallowed. R48/20/21/22: Harmful: danger of serious damage

42512 1/35

Mutagenic Category 3

B 2410

Version 1.0 Revision Date 09.06.2015



to health by prolonged exposure through inhalation,

in contact with skin and if swallowed. R68: Possible risk of irreversible effects. R43: May cause sensitisation by skin contact.

R36/38: Irritating to eyes and skin.

R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

2.2 Label elements

Sensitising

Irritant

Hazard pictograms

Dangerous for the environment







Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters

airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. Suspected of causing genetic defects. H341

H360F May damage fertility.

May cause damage to organs through H373 prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Prevention: Precautionary statements

> P201 Obtain special instructions before use. P260 Do not breathe dust/ fume/ gas/ mist/

> > vapours/ spray.

Wear protective gloves. P280

P281 Use personal protective equipment as

required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

P331 Do NOT induce vomiting.

2.3 Other hazards

The product is combustible. May produce an allergic reaction.

42512 2/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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 [%]
Phenol	108-95-2	< 2*
Barium compounds	Trade Secret*	< 20*
Zinc compounds	Trade Secret*	< 20*
Diisodecyl phenyl phosphite	25550-98-5	< 10*
Isodecyl diphenyl phosphite	26544-23-0	< 10*
Triisodecyl phosphite	25448-25-3	< 10*
Distillates (petroleum), hydrotreated light	64742-47-8	>= 25*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Dibenzoyl methane	120-46-7	< 10*
Phenol, 2,4-Bis (1-methyl-1-phenylethyl) -	2772-45-4	< 25*
Isodecanol (mixed isomers)	25339-17-7	< 10*
Phenol, 2 - (1-Methyl-1-phenylethyl) -4 -	73936-80-8	< 10*
(1,1,3,3-Tetramethyl-butyl) -		
4 - (α, α-dimethylbenzyl) phenol	599-64-4	< 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 : 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.

42512 3/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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

42512 4/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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

		Regulatory Limits			Recommended Limits	
		OSH	A PEL	Cal/OSHA PEL	NIOSH REL	ACGIH TLV
Substance	CAS No.	ррт	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/m ³	0.5 mg/m ³	0.5 mg/m³
2-(2-butoxyethoxy) ethanol	112-34-5					10 ppm
Distillates (Petroleum), hydrotreated light	64742-47- 8					200 mg/m ³
Phenol	108-95-2	5	19	5 ppm	5 ppm (C) 15.6 ppm [15- min]	5 ppm

42512 5**/**35

B 2410

Version 1.0

Revision Date 09.06.2015



		Regulatory Limits		mits	Recommended Limits		
				Cal/OSHA			
		OSH	A PEL	PEL	NIOSH REL	ACGIH TLV	
					Up to 10-		
				8-hour	hour		
						8-hour	
				TWA	TWA	TWA	
				(ST) STEL	(ST) STEL	(ST) STEL	
Substance	CAS No.	ppm	mg/m³	(C) Ceiling	(C) Ceiling	(C) Ceiling	
Dibenzoyl methane	120-46-7				_		
Respirable fraction			5	5 mg/m³		3 mg/m ³	

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Respiratory protection : In case of insufficient ventilation:

Protective mask against solvent vapours (A2 Filter)

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

min. 0,7 mm

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Rubber apron

Hygiene measures : When using do not eat or drink.

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

42512 6/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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), 25 °C, Value refers to the solvent.

Upper explosion limit : ca. 4,6 %(V), 25 °C, 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.

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 : No data available Vapor Density **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

42512 7**/**35

B 2410

Version 1.0 Revision Date 09.06.2015

Conditions to avoid : Sources of ignition

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

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

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

method

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

Components:

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 eve damage/eve

irritation

: rabbit, Result: Corrosive, OECD Test Guideline 405

Respiratory or skin

sensitisation

: Skin sensitisation

: Buehler Test, guinea pig, Result: not sensitising, OECD Test

Guideline 406

: LLNA, mouse, Result: not sensitising, Based on available

data, the classification criteria are not met.

: Respiratory sensitisation, Based on available data, the

classification criteria are not met.

42512 8/35

BAERLOCHER

B 2410

/ersion 1.0	Revision Date 09.06.2015
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), CHO, 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
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	: LD50: 1.480 mg/kg, rat, OECD Test Guideline 401, GLP: no
	 Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
Acute inhalation toxicity	: Based on available data, the classification criteria are not met.

42512 9/35

BAERLOCHER

B 2410

Version 1.0	Revision Date 09.06.2015
Acute dermal toxicity	: Read-across (Analogy)
	 LD50: > 2000 mg/kg bw, rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Read-across (Analogy)
	 EPISKIN Human Skin Model Test, Result: not irritating, Regulation (EC) No. 761/2009, B.46., 0,25 h, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	 rabbit, Result: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation, Read-across (Analogy)
	 LLNA, mouse, Result: not sensitising, OECD Test Guideline 429, GLP: yes, Based on available data, the classification criteria are not met.
	 Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy)
	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: Read-across (Analogy)
	 In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes
	: Read-across (Analogy)
	 Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)
	 rat, Exposure time: 2 a, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	 rat / mouse, Oral, Based on available data, the classification criteria are not met.
Teratogenicity	: Not classified due to lack of data.
	: Study in progress (external)
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.

42512 10/35

B 2410

Version 1.0 Revision Date 09.06.2015

STOT - repeated exposure : Read-across (Analogy)

: guinea pig, Oral, Exposure time: 30 d, LOAEL: 50 mg/kg STOT - repeated exposure

STOT - repeated exposure : Read-across (Analogy)

: rat, Oral, Exposure time: 92 d, NOAEL: 61,1 mg/kg, Based on STOT - repeated exposure

available data, the classification criteria are not met.

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

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 : Read-across (Analogy)

: Classification, Labelling according to EC Directives,

Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute

oral toxicity, Category 4

Acute inhalation toxicity : Read-across (Analogy)

Classification, Labelling according to EC Directives,

Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute

inhalation toxicity, Category 4

Acute dermal toxicity Read-across (Analogy)

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

Skin corrosion/irritation : Not classified due to lack of data. : Not classified due to lack of data.

Serious eye damage/eye irritation

: Read-across (Analogy)

Respiratory or skin 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

Classification

Labelling according to EC Directives

: Regulation (EC) No 1272/2008, Annex VI, Table 3.1

42512 11/35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015
	: May damage fertility.
STOT - single exposure	: Remarks: Read-across (Analogy)
OTOT Single exposure	. Remarks. Read deross (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Read-across (Analogy)
STOT - repeated exposure	: Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Specific target organ toxicity - repeated exposure, Category 1
Aspiration toxicity	: Not classified due to lack of data.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: CMR effects, Reproductive toxicity, Read-across (Analogy), Category 1B
	: Likely route of exposure, Ingestion, Inhalation, Skin contact
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 irritation	: in vitro assay, Result: Causes serious eye damage., OECD 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	

42512 12/35

BAERLOCHER

B 2410

Genotoxicity in vitro	
Genoloxicity in vitio	: Read-across (Analogy)
•	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)
Carcinogericity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
reproductive toxicity	: Suspected of damaging the unborn child.
STOT - single exposure	: Remarks: Not classified due to lack of data.
OTOT Single exposure	. Nothans. Not diassified 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
Barium Compounds :	
Acute oral toxicity	 Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
Acute inhalation toxicity	 Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 2000 mg/kg bw, rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	 rabbit, Result: not irritating, OECD Test Guideline 404, 4 h, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	 rabbit, Result: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation, Read-across (Analogy)
	: LLNA, mouse, Result: not sensitising, OECD Test Guideline 429, GLP: yes, Based on available data, the classification criteria are not met.
	 Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity	

42512 13/35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015
Genotoxicity in vitro	: Read-across (Analogy)
	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: Read-across (Analogy)
	 In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes
	: Read-across (Analogy)
	 Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)
	 rat, Exposure time: 2 a, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)
	 rat, Oral, Based on available data, the classification criteria 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
Zinc Compounds :	
Acute oral toxicity	: Read-across (Analogy)
	: LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401
	: Read-across (Analogy)
	: LD50: 2.565 mg/kg, rat, OECD Test Guideline 423, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Read-across (Analogy)

42512 14/35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015
	: LC50: > 200 mg/l, 1 h, rat, dust/mist
	: Read-across (Analogy)
	: LC50: > 50 mg/l, 4 h, rat, dust/mist, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: Read-across (Analogy)
	: LD50: > 2000 mg/kg bw, rabbit, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Read-across (Analogy)
	 rabbit, Result: not irritating, OECD Test Guideline 404, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Read-across (Analogy)
	: rabbit, Result: Irritating to eyes., OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	: Skin sensitisation, Read-across (Analogy)
	 Patch test on human volunteers did not demonstrate sensitisation properties., 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	: Read-across (Analogy)
	 Result: negative, standardised international/national methodology, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Read-across (Analogy)
	 standardised international/national methodology, Result: negative, 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)
	: Based on available data, the classification criteria are not met.
Teratogenicity	: Read-across (Analogy)
	: Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.

42512 15/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

STOT - repeated exposure : Read-across (Analogy)

STOT - repeated exposure : Based on available data, the classification criteria are not met.

Aspiration toxicity : Not classified due to lack of data.

Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive

toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.

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

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.

42512 16**/**35

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B 2410

rsion 1.0	Revision Date 09.06.2015
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
Isodecyl diphenyl phosphite	e :
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

42512 17/35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015
	classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	 In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, rat, Exposure time: 16 w, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	 rat, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Oral, Exposure time: 16 w, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
Triisodecyl phosphite :	
Acute oral toxicity	: LD50: 13.800 mg/kg, rat, OECD Test Guideline 401, Based or 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.

42512 18/35

BAERLOCHER

B 2410

sion 1.0		Revision Date 09.06.2015
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

42512 19/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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.

Skin corrosion/irritation : rabbit, Result: irritating, standardised international/national

methodology, 24 h, GLP: yes

Serious eye damage/eye

irritation

: rabbit, Result: not irritating, standardised international/national

methodology, GLP: yes, Based on available data, the

classification criteria are not met.

Respiratory or skin

sensitisation

: Skin sensitisation

: Buehler Test, guinea pig, Result: not sensitising, OECD Test

Guideline 406, GLP: yes, Based on available data, the

classification criteria are not met.

: Respiratory sensitisation

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

Germ cell mutagenicity

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation

assay), Bacteria, Result: negative, OECD Test Guideline 471

: In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476,

GLP: yes, Based on available data, the classification criteria

are not met.

Genotoxicity in vivo : Genotoxicity in vivo, rat, intraperitoneally, OECD Test

Guideline 478, Result: negative

: Genotoxicity in vivo, mouse, intraperitoneally, OECD Test

Guideline 478, Result: negative

: Genotoxicity in vivo, mouse, Inhalation, OECD Test Guideline

478, Result: negative

: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, intraperitoneally, OECD Test

Guideline 475, GLP: yes, Based on available data, the

classification criteria are not met.

Carcinogenicity : mouse, Skin contact, OECD Test Guideline 451, GLP: yes,

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

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

: Screening for reproductive/developmental toxicity, rat, Skin

42512 20**/**35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015	
	contact, NOAEL: > 494 mg/kg, OECD Test Guideline 4 Based on available data, the classification criteria are n	
Teratogenicity	rat, Inhalation, OECD Test Guideline 414	
	rat, Oral, OECD Test Guideline 414, Based on available the classification criteria are not met.	e data,
STOT - single exposure	Assessment: May cause drowsiness or dizziness.	
STOT - repeated exposure	rat, Oral, Exposure time: <= 90 d, Based on available d the classification criteria are not met.	lata,
STOT - repeated exposure	rat / mouse, Inhalation, Exposure time: 90 d, OECD Te Guideline 413, Based on available data, the classification criteria are not met.	
STOT - repeated exposure	rat, Dermal, Exposure time: 28 d, OECD Test Guideline GLP: yes, Based on available data, the classification crare not met.	
Aspiration toxicity	May be fatal if swallowed and enters airways.	
Further information	CMR effects, Carcinogenicity, Mutagenicity, Reproduct toxicity, Hazard assessment, Category 1A, Category 1B Based on available data, the classification criteria are n	В,
	Likely route of exposure, Inhalation, Ingestion, Skin cor	ntact
2-(2-Butoxyethoxy) ethanol :		
Acute oral toxicity	LD50: 2.410 mg/kg, mouse(male), OECD Test Guidelin GLP: no, Based on available data, the classification crit 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 GLP: yes, > Saturated vapour concentration	∍ 412,
	LC50: > 29 ppm, 2 h, rat, vapour, OECD Test Guideline GLP: no, Based on available data, the classification crit are not met.	
Acute dermal toxicity	LD50: 2.764 mg/kg, rabbit, OECD Test Guideline 402, no, Based on available data, the classification criteria a met.	
Skin corrosion/irritation	rabbit, Result: slight irritation, OECD Test Guideline 40-GLP: no, Based on available data, the classification critare not met.	
Serious eye damage/eye irritation	rabbit, Result: Moderate eye irritation, OECD Test Guid 405, GLP: no	eline
Respiratory or skin sensitisation	Skin sensitisation	

42512 21/35

BAERLOCHER

B 2410

sion 1.0	Revision Date 09.06.2015
	: Maximisation Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, Based on available data, the classificatio 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, Resul 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, OEC Test Guideline 475, Result: negative, Based on available data, the classification criteria are not me
Carcinogenicity	: Not classified due to lack of data.
Reproductive toxicity	: One-generation reproduction toxicity test, rat, Skin contact, OECD Test Guideline 415
	 One-generation reproduction toxicity test, rat, Oral, OECD Test Guideline 415, Based on available data, the classificatio criteria are not met.
Teratogenicity	: rabbit, Skin contact, OECD Test Guideline 414
	 rat, Oral, OECD Test Guideline 414, Based on available data the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Dermal, standardised international/national methodology. Based on available data, the classification criteria are not me
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 me
	: Likely route of exposure, Inhalation, Ingestion, Skin contact

42512 22/35

B 2410

Version 1.0 Revision Date 09.06.2015

4 - $(\alpha, \alpha$ -dimethylbenzyl) phenol:

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

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:

Phenol:

: NOEC: 4 mg/l, 14 d, Poecilia reticulata (guppy), semi-static Toxicity to fish

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), semistatic test, standardised international/national methodology

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

23/35 42512

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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, static test,

OECD Test Guideline 209, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

Read-across (Analogy)

EC16: 5,8 mg Ba/l, 21 d, Daphnia magna (Water flea), semi-

static test

Ecotoxicology Assessment

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

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

Barium Compounds:

Ecotoxicology Assessment

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

Chronic aquatic toxicity : Read-across (Analogy), Toxic to aquatic life with long lasting

effects.

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

(green algae), static test, OLOD Test Guideline 201, GLF. yes

42512 24**/**35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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.

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.

Zinc Compounds:

Toxicity to fish : LC50: 10 - 100 mg/l, 96 h, Danio rerio (zebra fish), OECD

Test Guideline 203

42512 25**/**35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

Toxicity to daphnia and other

aquatic invertebrates

EC50: 1 - 10 mg/l, 48 h, Daphnia magna (Water flea), OECD

Test Guideline 202

Toxicity to algae : EC50: 1 - 10 mg/l, 72 h, Desmodesmus subspicatus (green

algae), OECD Test Guideline 201

: NOEC: < 1,0 mg/l, 72 h, Desmodesmus subspicatus (green

algae), OECD Test Guideline 201

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.

Isodecyl diphenyl 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

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

orday roominoany mor roadion

study technically not feasible Toxicity to bacteria :

study technically not feasible

Toxicity to fish (Chronic

toxicity)

Toxicity to daphnia and other

study technically not feasible

42512 26**/**35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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).

Toxicity to algae

Value refered to the Water accumulated fraction (WAF).

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)

Ecotoxicology Assessment

: 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).

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

Chronic aquatic toxicity : 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

aquatic invertebrates

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

test, OECD Test Guideline 202, GLP: yes

Toxicity to algae : NOEC: > 100 mg/l, 96 h, Desmodesmus subspicatus (green

algae), static test, OECD Test Guideline 201, GLP: yes

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

inhibition, OECD Test Guideline 209, GLP: no

Ecotoxicology Assessment

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

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

42512 27**/**35

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B 2410

Version 1.0 Revision Date 09.06.2015

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 - $(\alpha, \alpha$ -dimethylbenzyl) phenol:

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

12.2 Persistence and degradability

Components:

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

Barium Compounds:

Biodegradability

The methods for determining biodegradability are not

applicable to inorganic substances.

Barium Compounds:

Biodegradability

no data available

Barium Compounds:

Biodegradability

The organic components of the product are biodegradable.

The methods for determining biodegradability are not

applicable to inorganic substances.

Barium Compounds:

Biodegradability

The organic components of the product are biodegradable.

:

42512 28**/**35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

The methods for determining biodegradability are not

applicable to inorganic substances.

Zinc Compounds:

Biodegradability

Read-across (Analogy)

Readily biodegradable.

Diisodecyl phenyl phosphite:

Biodegradability : aerobic, 10 %, Result: Inherently biodegradable., Exposure

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

GLP: yes

Isodecyl diphenyl phosphite:

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

Test Guideline 301D,

Not readily biodegradable.

Triisodecyl phosphite:

Biodegradability : aerobic, 0,47 %, Result: Not readily biodegradable., Exposure

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

Distillates (petroleum), hydrotreated light :

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

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

2-(2-Butoxyethoxy) ethanol:

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

activated sludge, OECD Test Guideline 301, GLP: no

12.3 Bioaccumulative potential

Components:

Phenol:

Bioaccumulation : Brachydanio rerio, Exposure time: 5 h, 25 °C,

Bioconcentration factor (BCF): 17,5, standardised

international/national methodology,

Bioaccumulation is unlikely.

Barium Compounds:

Bioaccumulation

Bioaccumulation is unlikely.

Barium Compounds:

Bioaccumulation

no data available

Barium Compounds:

Bioaccumulation

Read-across (Analogy)

This substance is not considered to be bioaccumulating.

Barium Compounds:

Bioaccumulation

Read-across (Analogy)

42512 29**/**35

B 2410



Version 1.0 Revision Date 09.06.2015

Bioconcentration factor (BCF): 6,4 - 74,4,

Barium

Zinc Compounds:

Bioaccumulation

not applicable

Diisodecyl phenyl phosphite:

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

Isodecyl diphenyl phosphite:

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

Triisodecyl phosphite:

Bioaccumulation

study scientifically unjustified

Distillates (petroleum), hydrotreated light:

Bioaccumulation

no data available

2-(2-Butoxyethoxy) ethanol:

Bioaccumulation

Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

Phenol:

Mobility : Predicted distribution to environmental compartments, Water

Barium Compounds:

Mobility : QSAR, not applicable

Barium Compounds:

Mobility : not applicable

Barium Compounds:

Mobility : no data available

Zinc Compounds:

Mobility : According to experience not expected

Diisodecyl phenyl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Sediment, Soil

Isodecyl diphenyl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Sediment, Soil

Triisodecyl phosphite:

Mobility : QSAR, Predicted distribution to environmental compartments,

Soil, Sediment

Distillates (petroleum), hydrotreated light:

Mobility : QSAR, Predicted distribution to environmental compartments,

Alf

2-(2-Butoxyethoxy) ethanol:

Mobility : QSAR, Predicted distribution to environmental compartments,

Water

12.5 Results of PBT and vPvB assessment

Components:

Phenol:

42512 30/35

BAERLOCHER

B 2410

Version 1.0 Revision Date 09.06.2015

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

Barium Compounds:

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

Barium Compounds:

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

Barium Compounds:

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

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.

Diisodecyl phenyl phosphite:

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

Isodecyl diphenyl phosphite:

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

Triisodecyl phosphite:

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

Distillates (petroleum), hydrotreated light:

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.

12.6 Other adverse effects

Phenol:

Further information : No information available.

Barium Compounds:

Further information : No information available.

Zinc Compounds:

Further information : No information available.

Diisodecyl phenyl phosphite:

Further information : No information available.

Isodecyl diphenyl phosphite:

Further information : No information available.

Triisodecyl phosphite:

Further information : No information available.

Distillates (petroleum), hydrotreated light:

42512 31/35

SAFETY DATA SHEET

according to 29 CFR § 1910.1200



B 2410

Version 1.0 Revision Date 09.06.2015

Further information No information available.

2-(2-Butoxyethoxy) ethanol:

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

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

32/35 42512

BAERLOCHER

B 2410

Version 1.0

Revision Date 09.06.2015

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	15.0
Zinc compounds	N982	11.7
Phenol	108-95-2	1.3

National Legislation:

Registration Status:

EINECS : Not listed

TSCA : listed

DSL : Not listed

AICS : Not listed

ENCS : Not listed

ECL : Not listed

PICCS : Not listed

CHINA : Not listed

42512 33/35

B 2410



Version 1.0 Revision Date 09.06.2015

16. Other information

Date of Preparation or last change: 09.06.2015

HMIS Rating (USA)

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

HTS # : 3812.30.9000

Full text of R-phrases

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns. R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure

through inhalation, in contact with skin and if swallowed.

R48/23/24/25 Also toxic: danger of serious damage to health by prolonged exposure

through inhalation, in contact with skin and if swallowed.

R51 Toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

R60 May impair fertility.

R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.

R68 Possible risk of irreversible effects.

42512 34/35

according to 29 CFR § 19



B 2410

Version 1.0 Revision Date 09.06.2015

Full text of H-Statements

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.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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.

42512 35/35