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#### **SECTION 1. IDENTIFICATION**

#### **Product identifier**

Trade name

: B 2905

#### Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Manufacture of plastics products Polymer additive Stabilizer
Recommended restrictions on use	:	None known.

#### 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 or 330-602-1531 Night 513-207-1620 or 513-604-2327
E-mail address Responsible/issuing person		Hotline.PS@baerlocher.com Product Safety Department

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

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

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Acute toxicity (Oral)	: Category 4	
Acute toxicity (Inhalation)	: Category 4	
Serious eye damage	: Category 1	
Skin sensitisation	: Category 1	
Reproductive toxicity	: Category 2	

#### **GHS** label elements

Hazard pictograms



Signal word :

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361d Suspected of damaging the unborn child.

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Precautionary statements	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>
	<ul> <li>Response:</li> <li>P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.</li> <li>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/ attention.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P363 Wash contaminated clothing before reuse.</li> </ul>
	<b>Storage:</b> P405 Store locked up.
	<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards Combustible material	

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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Mixture
		Contains organic solvents.

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Barium Compounds*	Trade Secret	< 20*
White mineral oil (petroleum)	8042-47-5	< 10*
Barium Compounds*	Trade Secret	< 20*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 20*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 20*
1,3-Diphenylpropane-1,3-dione	120-46-7	< 10*
Zinc Compounds*	Trade Secret	< 20*
Barium Compounds*	Trade Secret	< 20*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*

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

#### **SECTION 4. FIRST AID MEASURES**

General advice If inhaled In case of skin contact	:	Remove and wash contaminated clothing before re-use. Move to fresh air. Wash off with soap and plenty of water.
		Take off contaminated clothing and shoes immediately.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids.
If swallowed	:	Call a physician immediately. Show this safety data sheet to the doctor in attendance.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray



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		Foam
		Carbon dioxide (CO2)
		Dry chemical
		Sand
Unsuitable extinguishing	:	High volume water jet
media		
Specific hazards during fire-	:	Smoke and fumes, toxic.
fighting		
0 0		In the event of fire, wear self-contained breathing apparatus.
for firefighters	•	

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods and materials for containment and 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.

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.
Conditions for safe storage	:	Provide sufficient air exchange and/or exhaust in work rooms. Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated place.
Technical measures/Precautions	:	Handle in accordance with good industrial hygiene and safety practice.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Barium, soluble compounds		air 8 h	0.5 mg/m3	ACGIH	
(as Ba)	Not Assigned		(Barium)	ACGIT	
White mineral oil (petroleum)	8042-47-5	air 8 h	5 mg/m3	ACGIH	
		TWA	5 mg/m3	NIOSH REL	
		STEL	10 mg/m3	NIOSH REL	
		PEL	5 mg/m3	OSHA Z-1	
2-(2-Butoxyethoxy) ethanol	112-34-5	air 8 h	10 ppm	ACGIH	
White mineral oil (petroleum)	8042-47-5	PEL	5 mg/m3	OSHA	
		TWA	5 mg/m3	NIOSH REL	
		air 8 h	5 mg/m3	ACGIH TLV	
		STEL	10 mg/m3	ACGIH TLV	
Particulates Not Otherwise Regulated (PNOR) Respirable fraction		PEL	5 mg/m3	OSHA	
		air 8 h	3 mg/m3	ACGIH TLV	
Engineering measures	: Local exhaus	t			
Personal protective equipme	nt				
Respiratory protection		Up to 0.5 mg/m3: (APF=10) Any air-purifying respirator with a high-efficiency particulate filter/(APF=10) Any air-supplied respirator			
Hand protection	·				
Material		protective gloves acc. to EN 374, e.g. neoprene			
Glove thickness	: >= 0.7 mm				
Eye protection	: Safety glasse	S			
Skin and body protection		Long sleeved clothing			
Protective measures		antistatic shoes			
Hygiene measures	: When using o Do not smoke	lo not eat or dri e.	nk. and at the end of work	day.	

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

Handle in accordance with good industrial hygiene and safety

Regular cleaning of equipment, work area and clothing.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

practice.

Appearance Color Odor Odor Threshold	:	liquid yellowish characteristic No data available
рН	:	No data available

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Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 230 °C (1,013 hPa) Value refers to the solvent.
Flash point Evaporation rate	:	> 100 °C No data available
Flammability (liquids)	:	Combustible Liquid
Upper explosion limit	:	5.9 %(V) Value refers to the solvent.
Lower explosion limit	:	0.8 %(V) Value refers to the solvent.
Vapor pressure	:	ca. 0.02 hPa (20 °C) Value refers to the solvent.
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0.8 - 1.0 g/cm3
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	210 °C Value refers to the solvent.
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Refractive index	:	No data available

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Stable at normal ambient temperature and pressure. No decomposition if stored normally. Vapours may form explosive mixture with air.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Keep away from heat and sources of ignition. Strong oxidizing agents No decomposition if used as directed.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,423 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 4.91 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Barium Compounds:		
Acute oral toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute oral toxicity Category 4
Acute inhalation toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
White mineral oil (petroleu	m):	
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: Based on available data, the classification criteria are not met.

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Barium Compounds: Acute oral toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute oral toxicity Category 4
Acute inhalation toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
Acute dermal toxicity	:	Remarks: Read-across (Analogy)
		LD50 (Rat): > 2000 mg/kg bw Method: OECD Test Guideline 402 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Barium Compounds:		
Acute oral toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute oral toxicity Category 4
Acute inhalation toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
Acute dermal toxicity	:	Remarks: Read-across (Analogy)
		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.
Zinc Compounds:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: standardised international/national methodology Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.
Acute dermal toxicity	:	Remarks: Read-across (Analogy)

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		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.
Barium Compounds:		
Acute oral toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute oral toxicity Category 4
Acute inhalation toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
Acute dermal toxicity	:	Remarks: Read-across (Analogy)
		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Zinc Compounds:		
Acute oral toxicity	:	LD50: > 2,000 mg/kg Method: Acute toxicity estimate Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.
Acute dermal toxicity	:	LD50: > 2,000 mg/kg Method: Acute toxicity estimate Remarks: Based on available data, the classification criteria are not met.
1,3-Diphenylpropane-1,3-die	one	:
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: study scientifically unjustified
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

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Zinc Compounds: Acute oral toxicity			
Acute inhalation toxicity			

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	GLP: yes
Zinc Compounds:	
Acute oral toxicity :	Remarks: Read-across (Analogy)
	LD50 (Rat): > 2,000 mg/kg Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity :	Remarks: Read-across (Analogy)
	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity :	Remarks: Read-across (Analogy)
	LD50 (Rabbit): > 2000 mg/kg bw Remarks: Based on available data, the classification criteria are not met.
Barium Compounds: Acute oral toxicity :	LD50 (Rat): > 50 mg/kg Method: OECD Test Guideline 423 GLP: yes

- Method: OECD Test Guideline 423 GLP: yes **Remarks: Classification** Acute inhalation toxicity : Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
- Acute dermal toxicity Remarks: Read-across (Analogy) : LD50 (Rat): > 2,000 mg/kg Method: standardised international/national methodology GLP: yes Remarks: Based on available data, the classification criteria are not met.

LD50 (Rat): <= 300 mg/kg

#### 2-(2-Butoxyethoxy) ethanol:

Acute oral toxicity	:	LD50 (Mouse, male): 2,410 mg/kg Method: OECD Test Guideline 401 GLP: no Remarks: Based on available data, the classification criteria
		Remarks. Dased on available data, the diassincation chiena

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	are not met.
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 3 mg/l Exposure time: 2 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no Remarks: Based on available data, the classification criteria are not met.</li> </ul>
Acute dermal toxicity	<ul> <li>LD50 (Rabbit): 2,764 mg/kg Method: OECD Test Guideline 402 GLP: no Remarks: Based on available data, the classification criteria are not met.</li> </ul>

#### Skin corrosion/irritation

#### **Components:**

#### White mineral oil (petroleum):

Species: Rabbit Exposure time: 24 h Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Species: Rabbit Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit Method: OECD Test Guideline 404 Result: slight irritation GLP: yes Remarks: Based on available data, the classification criteria are not met.

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#### **Barium Compounds:**

Species: Rabbit Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Zinc Compounds:

Species: Rabbit Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### 1,3-Diphenylpropane-1,3-dione:

Species: in vitro assay Method: OECD Test Guideline 439 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Zinc Compounds:

Species: Rabbit Method: OECD Test Guideline 404 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Species: reconstructed human epidermis (RhE) Method: OECD Test Guideline 439 Result: not irritating GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### 2-(2-Butoxyethoxy) ethanol:

Species: Rabbit Exposure time: 1 h Method: OECD Test Guideline 404 Result: slight irritation GLP: no Remarks: Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

#### **Components:**

White mineral oil (petroleum):

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Species: Rabbit Result: not irritating Method: OECD Test Guideline 405 GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Species: Rabbit Result: not irritating Method: OECD Test Guideline 405 GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Species: in vitro assay Result: Causes serious eye damage. Exposure time: 240 min Method: OECD Test Guideline 437 GLP: yes

#### Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit Result: irritating Method: OECD Test Guideline 405 GLP: yes

#### **Barium Compounds:**

Species: in vitro assay Result: Causes serious eye damage. Method: OECD Test Guideline 437 GLP: yes

#### Zinc Compounds:

Species: Rabbit Result: not irritating Method: OECD Test Guideline 405 GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### 1,3-Diphenylpropane-1,3-dione:

Species: Rabbit Result: not irritating Method: OECD Test Guideline 405 Remarks: Based on available data, the classification criteria are not met.



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#### Zinc Compounds:

Species: Rabbit Result: Causes serious eye damage. Method: OECD Test Guideline 405 GLP: yes

#### **Barium Compounds:**

Species: Rabbit Result: Causes serious eye damage. Method: OECD Test Guideline 405 GLP: yes

#### 2-(2-Butoxyethoxy) ethanol:

Species: Rabbit Result: highly irritant Method: OECD Test Guideline 405 GLP: no

#### Respiratory or skin sensitisation

#### **Components:**

#### White mineral oil (petroleum):

Remarks: Skin sensitisation

Test Type: Buehler Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. GLP: yes Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

#### **Barium Compounds:**

Remarks: Skin sensitisation Read-across (Analogy)

Test Type: LLNA Species: Mouse Method: OECD Test Guideline 429 Result: negative GLP: yes Remarks: Based on available data, the classification criteria are not met.

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

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#### **Barium Compounds:**

Remarks: Skin sensitisation

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

#### Zinc Compounds:

Remarks: Skin sensitisation

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

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

#### **Barium Compounds:**

Remarks: Skin sensitisation Read-across (Analogy)

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

Remarks: Respiratory sensitisation

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

#### Zinc Compounds:

Remarks: Skin sensitisation

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

#### 1,3-Diphenylpropane-1,3-dione:

Remarks: Skin sensitisation

Test Type: LLNA Species: Mouse Method: OECD Test Guideline 429 **Result: Sensitising** GLP: yes

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Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

Remarks: Skin sensitisation Read-across (Analogy)

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

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

#### **Barium Compounds:**

Remarks: Skin sensitisation Read-across (Analogy)

Test Type: LLNA Species: Mouse Method: OECD Test Guideline 429 Result: negative Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation Not classified due to lack of data.

#### 2-(2-Butoxyethoxy) ethanol:

Remarks: Skin sensitisation

Test Type: Maximisation Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. Remarks: Based on available data, the classification criteria are not met.

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Remarks: Respiratory sensitisation Not classified due to lack of data.

#### Germ cell mutagenicity

#### **Components:**

#### White mineral oil (petroleum):

Genotoxicity in vitro

Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative

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	:	Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: negative
	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Species: Chinese hamster ovary cells Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	Remarks: Read-across (Analogy)
		Test Type: In vivo micronucleus test Species: Mouse Application Route: intraperitoneally Method: OECD Test Guideline 474 Result: negative Remarks: Based on available data, the classification criteria are not met.
Barium Compounds:		
Genotoxicity in vitro	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative GLP: yes
	:	Remarks: Read-across (Analogy)
	:	Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: negative GLP: yes
	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Species: Chinese hamster ovary cells Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: Based on available data, the classification criteria are not met.

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Genotoxicity in vitro	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
Zinc Compounds:	
Genotoxicity in vitro	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
Barium Compounds:	
Genotoxicity in vitro	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
Zinc Compounds:	
Genotoxicity in vitro	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
1,3-Diphenylpropane-1,3	-dione:
Genotoxicity in vitro	: Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative GLP: yes
	: Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: positive GLP: yes
	<ul> <li>Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Species: CHL Method: OECD Test Guideline 487 Result: positive GLP: yes Remarks: Based on available data, the classification criteria are not met.</li> </ul>
Zinc Compounds:	

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	: Method: standardised international/national methodology Result: negative Remarks: Based on available data, the classification criteria are not met.
Barium Compounds:	
Genotoxicity in vitro	: Remarks: Read-across (Analogy)
	: Remarks: Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Remarks: Read-across (Analogy)
	Remarks: Based on available data, the classification criteria are not met.
2-(2-Butoxyethoxy) ethanol:	
Genotoxicity in vitro	<ul> <li>Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)</li> <li>Species: Bacteria</li> <li>Method: OECD Test Guideline 471</li> <li>Result: negative</li> </ul>
	: Test Type: In vitro gene mutation study in mammalian cells Species: Chinese hamster ovary cells Method: OECD Test Guideline 476 Result: negative GLP: yes
	: Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Species: Chinese hamster ovary cells Method: OECD Test Guideline 473 Result: negative Remarks: Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Method: OECD Test Guideline 475 Result: negative Remarks: Based on available data, the classification criteria are not met.

### Carcinogenicity

#### Product:

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

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#### **Components:**

#### White mineral oil (petroleum):

Species: Mouse Application Route: Dermal Method: OECD Test Guideline 453

Species: Rat Application Route: Oral Method: OECD Test Guideline 453 GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat Application Route: Oral Exposure time: 2 a Method: standardised international/national methodology GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Remarks: Read-across (Analogy)

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

#### Zinc Compounds:

Remarks: Read-across (Analogy)

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

#### **Barium Compounds:**

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

Remarks: Not classified due to lack of data.

#### 1,3-Diphenylpropane-1,3-dione:

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

Remarks: Read-across (Analogy)

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

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#### Barium Compounds: Remarks: Not classified due to lack of data.

#### 2-(2-Butoxyethoxy) ethanol:

Remarks: Not classified due to lack of data.

#### Reproductive toxicity

Components:

White mineral oil (petroleum):	
Effects on fertility :	Test Type: Screening for reproductive/developmental toxicity Species: Rat Application Route: Dermal General Toxicity - Parent: >= 1,000 Method: OECD Test Guideline 421
	Test Type: One-generation reproduction toxicity test Species: Rat Application Route: Dermal General Toxicity - Parent: >= 2,000 Method: OECD Test Guideline 415 Remarks: Based on available data, the classification criteria are not met.
	Test Type: Screening for reproductive/developmental toxicity Species: Rat Application Route: Dermal NOAEL: >= 1,000 mg/kg, Method: OECD Test Guideline 421
	Test Type: One-generation reproduction toxicity test Species: Rat Application Route: Dermal NOAEL: >= 2,000 mg/kg, Method: OECD Test Guideline 415 Remarks: Based on available data, the classification criteria are not met.
Effects on foetal develop- : ment	Species: Rat Application Route: Oral Teratogenicity: > 5,000 Method: OECD Test Guideline 414 Remarks: Based on available data, the classification criteria are not met. Species: Rat Application Route: Oral > 5,000 mg/kg Method: OECD Test Guideline 414 Remarks: Based on available data, the classification criteria are not met.

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Barium Compounds: Effects on fertility	:	Remarks: Read-across (Analogy) Species: Rat Application Route: Oral Remarks: Based on available data, the classification criteria are not met.
		Remarks: Read-across (Analogy)
		Species: Rat Application Route: Oral
		Remarks: Based on available data, the classification criteria are not met.
Effects on foetal develop-	:	Remarks: Not classified due to lack of data.
ment		Remarks: Study in progress (external) Remarks: Not classified due to lack of data. Remarks: Study in progress (external)
Barium Compounds:		
Effects on fertility	:	Remarks: Read-across (Analogy)
		Remarks: Suspected of damaging the unborn child.
		Remarks: Read-across (Analogy)
		Remarks: Suspected of damaging the unborn child.
Zinc Compounds: Effects on fertility	:	Remarks: Read-across (Analogy)
		Remarks: Suspected of damaging the unborn child.
		Remarks: Read-across (Analogy)
		Remarks: Suspected of damaging the unborn child.
Barium Compounds: Effects on fertility	:	Remarks: Not classified due to lack of data.
		Remarks: Not classified due to lack of data.



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	ompounds: on fertility :	Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria
		are not met. Remarks: Read-across (Analogy)
		Remarks: Based on available data, the classification criteria are not met.
	on foetal develop- :	Remarks: Read-across (Analogy)
ment		Remarks: Based on available data, the classification criteria are not met. Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.
1,3-Dip	ohenylpropane-1,3-dione	:
Effects	on fertility :	Remarks: Not classified due to lack of data.
		Remarks: Not classified due to lack of data.
Effects ment	on foetal develop- :	Remarks: Not classified due to lack of data. Remarks: Not classified due to lack of data.
Zinc C	ompounds:	
Effects	on fertility :	Remarks: Read-across (Analogy)
		Remarks: Based on available data, the classification criteria are not met.
		Remarks: Read-across (Analogy)
		Remarks: Based on available data, the classification criteria are not met.
	on foetal develop- :	Remarks: Read-across (Analogy)
ment		Remarks: Based on available data, the classification criteria are not met. Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.

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Barium Compounds: Effects on fertility	: Remarks: Read-across (Analogy)
	Remarks: Based on available data, the classification criteria are not met.
	Remarks: Read-across (Analogy)
	Remarks: Based on available data, the classification criteria are not met.
Effects on foetal develop- ment	: Remarks: Read-across (Analogy)
	Remarks: Based on available data, the classification criteria are not met. Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.
2-(2-Butoxyethoxy) ethanol:	
Effects on fertility	: Remarks: Read-across (Analogy)
	Test Type: Two-generation study Species: Mouse Application Route: Oral Method: standardised international/national methodology Remarks: Based on available data, the classification criteria are not met.
	Remarks: Read-across (Analogy)
	Test Type: Two-generation study Species: Mouse Application Route: Oral
	Method: standardised international/national methodology Remarks: Based on available data, the classification criteria are not met.
Effects on foetal develop- ment	: Species: Rabbit Application Route: Skin contact Method: OECD Test Guideline 414
	Species: Rat Application Route: Oral Method: OECD Test Guideline 414 Remarks: Based on available data, the classification criteria are not met. Species: Rabbit Application Route: Skin contact

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Method: OECD Test Guideline 414 Species: Rat Application Route: Oral Method: OECD Test Guideline 414 Remarks: Based on available data, the classification criteria are not met.

#### STOT - single exposure

#### **Components:**

#### **Barium Compounds:**

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

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

#### Barium Compounds:

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

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

#### 1,3-Diphenylpropane-1,3-dione:

Remarks: Not classified due to lack of data.

### Zinc Compounds:

Remarks: Read-across (Analogy)

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

#### **Barium Compounds:**

Remarks: Read-across (Analogy)

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

#### **2-(2-Butoxyethoxy) ethanol:** Remarks: Based on available data, the classification criteria are not met.

#### **Repeated dose toxicity**

#### Components:

#### White mineral oil (petroleum):

Species: Rat NOAEL: >= 1,200 mg/kg Application Route: Oral



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Method: OECD Test Guideline 453 GLP: yes

Species: Rat Application Route: Inhalation Method: OECD Test Guideline 412

Species: Rat NOAEL: >= 2,000 mg/kg Application Route: Dermal Method: OECD Test Guideline 411 GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat NOAEL: 61.1 mg/kg Application Route: Oral Exposure time: 92 d Remarks: Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

#### Zinc Compounds:

Remarks: Read-across (Analogy) Based on available data, the classification criteria are not met.

#### **Barium Compounds:**

Remarks: Not classified due to lack of data.

#### Zinc Compounds:

Remarks: Read-across (Analogy)

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

#### 1,3-Diphenylpropane-1,3-dione:

Species: Rat NOAEL: 62.5 mg/kg Application Route: Oral Exposure time: 90 d Method: OECD Test Guideline 408 GLP: yes Remarks: Based on available data, the classification criteria are not met.



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#### Zinc Compounds:

Remarks: Read-across (Analogy)

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

#### **Barium Compounds:**

Remarks: Read-across (Analogy)

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

#### 2-(2-Butoxyethoxy) ethanol:

Species: Rat Application Route: Oral Method: standardised international/national methodology GLP: yes

Species: Rat Application Route: Dermal Method: standardised international/national methodology

Species: Rat Application Route: Inhalation Method: standardised international/national methodology GLP: yes Remarks: Based on available data, the classification criteria are not met.

#### Aspiration toxicity

#### **Components:**

### White mineral oil (petroleum):

May be fatal if swallowed and enters airways.

#### **Barium Compounds:**

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

#### Barium Compounds:

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

#### Zinc Compounds:

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

#### **Barium Compounds:**

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

#### Zinc Compounds:

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



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Not classified due to lack of data.

#### Zinc Compounds:

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

#### Barium Compounds:

Not classified due to lack of data.

#### 2-(2-Butoxyethoxy) ethanol:

Not classified due to lack of data.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### **Components:**

#### Barium Compounds:

<b>Ecotoxicology Assessment</b> Acute aquatic toxicity :	Not classified due to lack of data.
Chronic aquatic toxicity :	Not classified due to lack of data.
White mineral oil (petroleum):	
Toxicity to fish :	LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to daphnia and other : aquatic invertebrates	LL50 (Daphnia magna (Water flea)): >= 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to algae :	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: Value refered to the Water accumulated fraction (WAF).



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Toxicity to fish (Chronic tox- icity)	:	NOEL (Oncorhynchus mykiss (rainbow trout)): >= 1,000 mg/l Exposure time: 28 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Read-across (Analogy)
		NOEL (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to bacteria	:	LOEL (lowest observed effect level) (Bacteria): Exposure time: 93 d Method: standardised international/national methodology
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	:	Remarks: Read-across (Analogy)
		LC50 (Danio rerio (zebra fish)): > 97.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
	:	Remarks: Read-across (Analogy)
aquatic invertebrates		LC50 (Daphnia magna (Water flea)): 14,5 mg Ba/L Exposure time: 48 h Test Type: static test
Toxicity to algae	:	Remarks: Read-across (Analogy)
		NOEC (Pseudokirchneriella subcapitata (green algae)): >= 34,31 mg Ba/L Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
		EC50 (Pseudokirchneriella subcapitata (green algae)): > 34,31 mg Ba/L Exposure time: 72 h Test Type: static test



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		Method: OECD Test Guideline 201 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Read-across (Analogy)
ic toxicity)		EC16 (Daphnia magna (Water flea)): 5.8 mg/l Exposure time: 21 d Test Type: semi-static test
Toxicity to bacteria	:	GLP: Remarks: Read-across (Analogy)
		NOEC (activated sludge): >= 500,61 mg Ba/L Exposure time: 3 h Test Type: Respiration inhibition Method: 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	:	Remarks: Read-across (Analogy)
		EC50 (Danio rerio (zebra fish)): > 97.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
	:	Remarks: Read-across (Analogy)
aquatic invertebrates		LC50 (Daphnia magna (Water flea)): 14.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: standardised international/national methodology
Toxicity to algae	:	Remarks: Read-across (Analogy)
		EC50 (Pseudokirchneriella subcapitata (green algae)): > 34,3 mg Ba/L Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to bacteria	:	GLP: Remarks: Read-across (Analogy)

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Version 1.0		Revision Date 05/06/2020
		EC50 (activated sludge): > 500 mg Ba/L Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Based on available data, the classification criteria are not met.
Zinc Compounds:		
Toxicity to fish	:	Remarks: Read-across (Analogy)
		LC50 (Cyprinus carpio (Carp)): 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy)
		EC50 (Daphnia magna (Water flea)): 5 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	Remarks: Read-across (Analogy)
		EC50 (Pseudokirchneriella subcapitata (green algae)): 2.72 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic tox-	:	Remarks: Read-across (Analogy)
icity)		NOEC: 0,044 - 0,530 mg Zn/L Test Type: Fresh water
		Remarks: Read-across (Analogy)
		NOEC: 0,025 mg Zn/L Test Type: Marine water
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Read-across (Analogy)
,,,		NOEC: 0,037 - 0,400 mg Zn/L Test Type: Fresh water



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		Remarks: Read-across (Analogy)
		NOEC: 0,0056 - 0,9 mg Zn/L Test Type: Marine water
Toxicity to bacteria	:	IC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 GLP:
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.
Barium Compounds:		
Toxicity to fish	:	Remarks: Read-across (Analogy)
		LC50 (Danio rerio (zebra fish)): > 97.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy)
		LC50 (Daphnia magna (Water flea)): 14.5 mg/l Exposure time: 48 h Test Type: static test Method: standardised international/national methodology
Toxicity to algae	:	Remarks: Read-across (Analogy)
		EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic tox-	:	Remarks: Read-across (Analogy)
icity)		Chronic Toxicity Value (Fish): 1.6 mg/l Exposure time: 30 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	Remarks: Read-across (Analogy)
ic toxicity)		Chronic Toxicity Value (Daphnia magna (Water flea)): 1.7 mg/l Method: QSAR

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Toxicity to bacteria	:	GLP: Remarks: Read-across (Analogy)
		EC50 (Escherichia coli): 52.5 mg/l Method: QSAR GLP:
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 algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 1.69 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
		NOEC (Pseudokirchneriella subcapitata (green algae)): < 1.78 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1
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.
1,3-Diphenylpropane-1,3-dio	one	:
Toxicity to fish	:	LC50: 11.313 mg/l Exposure time: 96 h Method: QSAR
Toxicity to daphnia and other aquatic invertebrates	:	LC50: 7.519 mg/l Exposure time: 48 h Method: QSAR
Toxicity to algae	:	2.68 mg/l Exposure time: 96 h Method: QSAR
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.

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Chronic aquatic toxicity	:	Based on available data, the classification criteria are not met.
Zinc Compounds:		
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (algae)): 0.199 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
		(Pseudokirchneriella subcapitata (algae)): 0.065 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
(	:	1
icity) M-Factor (Chronic aquatic toxicity)	:	1
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Barium Compounds:		
Toxicity to fish	:	Remarks: Read-across (Analogy)
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l Exposure time: 96 h Test Type: static test Method: standardised international/national methodology
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy)
		LC50 (Daphnia magna (Water flea)): 14.5 mg/l Exposure time: 48 h Test Type: static test Method: standardised international/national methodology
Toxicity to algae	:	Remarks: Read-across (Analogy)
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.11 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic tox-	:	Remarks: Read-across (Analogy)
icity)		NOEC (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l



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	Exposure time: 28 d Test Type: semi-static test Method: standardised international/national methodology
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Remarks: Read-across (Analogy)
	NOEC (Daphnia magna (Water flea)): 25 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to bacteria	: GLP: Remarks: Read-across (Analogy)
	(activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 GLP:
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	<ul> <li>LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: no</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>NOEC (Daphnia magna (Water flea)): &gt;= 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes</li> </ul>
Toxicity to algae	<ul> <li>NOEC (Desmodesmus subspicatus (green algae)): &gt; 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes</li> </ul>
Toxicity to bacteria	<ul> <li>EC10 (activated sludge): &gt; 1,995 mg/l Exposure time: 0.5 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: no</li> </ul>



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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.
Persistence and degradabilit	ty	
Components:		
Barium Compounds: Biodegradability	:	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
White mineral oil (petroleum)	):	
Biodegradability	:	Remarks: Read-across (Analogy)
		aerobic Inoculum: activated sludge Result: Inherently biodegradable. Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes
Barium Compounds:		
Biodegradability	:	Remarks: The organic components of the product are biode- gradable.
		Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
Barium Compounds:		
Biodegradability	:	Result: Readily biodegradable. Remarks: The organic components of the product are biode- gradable.
		Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
Zinc Compounds:		
Biodegradability	:	Remarks: Read-across (Analogy)
		aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes

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<b>Barium Compounds:</b> Biodegradability :	Remarks: Read-across (Analogy)
Liouograduoliity .	aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 11 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Organic acids
	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
Zinc Compounds:	
Biodegradability :	Remarks: Read-across (Analogy)
	Result: Not readily biodegradable.
<b>1,3-Diphenylpropane-1,3-dion</b> Biodegradability :	e: aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 89 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes
Zinc Compounds:	
Biodegradability :	Result: Readily biodegradable. Remarks: The organic components of the product are biode- gradable. Remarks: The methods for determining biodegradability are
	not applicable to inorganic substances.
Barium Compounds:	
Biodegradability :	Result: Readily biodegradable. Remarks: The organic components of the product are biode- gradable.
	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
<b>2-(2-Butoxyethoxy) ethanol:</b> Biodegradability :	aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 85 % Exposure time: 28 d



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		Method: OECD Test Guideline 301C GLP: no
Bioaccumulative potentia	al	
Components:		
Barium Compounds:		
Bioaccumulation	:	Remarks: Read-across (Analogy)
		Remarks: Bioaccumulation is unlikely.
White mineral oil (petrole	eum):	
Bioaccumulation	:	Remarks: No data available
Partition coefficient: n- octanol/water	:	Pow: > 3.5
Barium Compounds: Bioaccumulation		Demortics Dood oproce (Applomy)
Bioaccumulation	•	Remarks: Read-across (Analogy)
		Bioconcentration factor (BCF): 6.4 - 74.4 Remarks: Barium
Barium Compounds:		
Bioaccumulation	:	Remarks: Read-across (Analogy)
		Remarks: This substance is not considered to be bioaccumu- lating.
Partition coefficient: n- octanol/water	:	Remarks: Not applicable
Zinc Compounds:		
Bioaccumulation	:	Remarks: Read-across (Analogy) This substance is not considered to be bioaccumulating.
Partition coefficient: n- octanol/water	:	log Pow: > 5.7 Method: OECD Test Guideline 107 GLP: no
Barium Compounds:		
Bioaccumulation	:	Remarks: Read-across (Analogy)
		Remarks: This substance is not considered to be bioaccumu- lating.
Zinc Compounds:		
Bioaccumulation	:	Remarks: Read-across (Analogy)
		Remarks: This substance is not considered to be bioaccumu-

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		lating.
Partition coefficient: n- octanol/water	:	Remarks: Not applicable
1,3-Diphenylpropane-1,3-d	lione	:
Bioaccumulation	:	Remarks: study scientifically unjustified
Partition coefficient: n- octanol/water	:	log Pow: < 3
Zinc Compounds:		
Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Barium Compounds:		
Bioaccumulation	:	Remarks: No data available
2-(2-Butoxyethoxy) ethano	ol:	
Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-	:	log Pow: 1 (20 °C)
octanol/water		pH: 7 Method: OECD Test Guideline 117
Mobility in soil		
Components:		
Barium Compounds:		
Mobility	:	Remarks: No data available
White mineral oil (petroleu	m):	
Mobility	:	Remarks: The product is insoluble and floats on water.
		Method: QSAR Remarks: Predicted distribution to environmental compart- ments Sediment Soil
Barium Compounds:		
Mobility	:	Remarks: No data available
Barium Compounds:		
Mobility	:	Remarks: Not applicable
Zinc Compounds:		
Mobility	:	Remarks: Not applicable

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<b>Barium Compounds:</b> Mobility	:	Remarks: No data available
Zinc Compounds: Mobility	:	Remarks: Not applicable
<b>1,3-Diphenylpropane-1,3-di</b> Mobility	one :	: Remarks: No data available
Zinc Compounds: Mobility	:	Remarks: No data available
<b>Barium Compounds:</b> Mobility	:	Remarks: No data available
<b>2-(2-Butoxyethoxy) ethanol</b> Mobility	:	Method: QSAR Remarks: Predicted distribution to environmental compart- ments Water
Other adverse effects		
Components:		
Barium Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	
White mineral oil (petroleun Results of PBT and vPvB assessment Endocrine disrupting poten- tial	n): :	Based on available data, the classification criteria are not met. No information available.
Barium Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
Barium Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.

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Zinc Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
Barium Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
Zinc Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
<b>1,3-Diphenylpropane-1,3-dic</b> Results of PBT and vPvB assessment Endocrine disrupting poten- tial	one: : :	Based on available data, the classification criteria are not met. No information available.
Zinc Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
Barium Compounds: Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.
<b>2-(2-Butoxyethoxy) ethanol:</b> Results of PBT and vPvB assessment Endocrine disrupting poten- tial	:	Based on available data, the classification criteria are not met. No information available.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Consult an expert on the disposal of recovered material. En- sure disposal in compliance with government requirements and ensure conformity to local disposal regulations.
Contaminated packaging	:	Dispose in accordance with local, state and federal regula- tions. Empty containers must be handled with care due to product residue.

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#### **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

DOT

Not regulated as a dangerous good

#### **International Regulations**

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 313

: 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:

Components	CAS-No.	Wt., %
Barium Compounds (N040)	Not Assigned	31.4
Zinc Compounds (N982)	Not Assigned	20.9
Glycol ethers (N230)	112-34-5	1.5

# The components of this product are reported in the following inventories:

EINECS	Not listed
TSCA	listed
DSL	Not listed
NDSL	listed
AICS	Not listed
ENCS	Not listed
ECL	Not listed
PICCS	Not listed
CHINA	Not listed

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#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

#### **Further information**

#### HMIS III:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic



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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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