



**B 1923**

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

**1.1 Product identifier**

Trade name : **B 1923**  
Other means of Identification : Liquid Barium Zinc Compound

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Manufacture of plastics products  
Polymer additive  
Stabilizer  
Restrictions on Use : None known

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

Company : Baerlocher Production USA LLC  
5890 Highland Ridge Drive  
Cincinnati, OH 45232  
Telephone : Day 330-602-1528, 330-602-1531 or -1530  
Night 513-207-1620 or 513-604-2327  
E-mail address : Hotline.PS@baerlocher.com  
Responsible/issuing person : Product Safety Department

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

Tel.: 800-424-9300 USA or 703-527-3887  
Tel.: (86) 0532 8388 9090 China

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

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**2.2 Label elements**

Hazard pictograms :





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Signal word	:	Danger	
Hazard statements	:	H315	Causes skin irritation.
		H317	May cause an allergic skin reaction.
		H318	Causes serious eye damage.
		H373	May cause damage to organs through prolonged or repeated exposure.
		H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b>	
		P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
		P273	Avoid release to the environment.
		P280	Wear eye protection/ face protection.
		P280	Wear protective gloves.
		<b>Response:</b>	
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	P310	Immediately call a POISON CENTER or doctor/ physician.	

**2.3 Other hazards**

The product is combustible.  
May produce an allergic reaction.

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### 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 [%]
Isodecyl diphenyl phosphite	26544-23-0	$\geq 25^*$
Barium compounds	Trade Secret*	$< 20^*$
Phosphite compounds	Trade Secret*	$< 20^*$
Diisodecyl phenyl phosphite	25550-98-5	$< 25^*$
Distillates (petroleum), hydrotreated light	64742-47-8	$< 10^*$
Dibenzoyl methane	120-46-7	$< 10^*$
Zinc chloride	7646-85-7	$< 10^*$
Triisodecyl phosphite	25448-25-3	$< 10^*$
Benzoic acid	65-85-0	$< 10^*$
Diphenyl phosphite	4712-55-4	$< 10^*$
Triphenyl phosphite	101-02-0	$< 20^*$

\*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.



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## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
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.

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## 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.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

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



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Keep away from sources of ignition - No smoking.  
Provide sufficient air exchange and/or exhaust in work rooms.

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

- Requirements for storage areas and containers : Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated place.
- Further information on storage conditions : Handle in accordance with good industrial hygiene and safety practice.
- German storage class : 10 Combustible liquids

**7.3 Specific end use(s)**

- : Consult the technical guidelines for the use of this substance/mixture.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

Substance	CAS No.	Regulatory Limits			Recommended Limits	
		OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH TLV
		ppm	mg/m <sup>3</sup>	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 <sup>3</sup>	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
2-(2-butoxyethoxy) ethanol	112-34-5					10 ppm
Distillates (Petroleum), hydrotreated light	64742-47-8					200 mg/m <sup>3</sup>
Particulates Not Otherwise Regulated (PNOR) Inhalable Respirable fraction			5	5 mg/m <sup>3</sup>	-	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>



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**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.

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**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : yellowish
- Odour : characteristic
- pH : no data available
- Boiling point/boiling range : 237 - 277 °C, Value refers to the solvent.
- Flash point : > 100 °C
- Lower explosion limit : ca. 0,5 %(V), 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/cm<sup>3</sup>
- Water solubility : slightly soluble



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Partition coefficient: n-octanol/water	:	no data available
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
Vapor Density	:	No data available
Decomposition Temperature	:	No data available

**9.2 Other information**

No data available

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**10. Stability and reactivity**

**10.1 Reactivity**

Stable at normal ambient temperature and pressure.

**10.2 Chemical stability**

No decomposition if stored normally.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Sources of ignition

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No decomposition if used as directed.

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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Product**



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- Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

**Components:**

**Isodecyl diphenyl phosphite :**

- Acute oral toxicity : LD50: 3.840 mg/kg, rat, standardised international/national methodology, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC50: > 8,4 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : rabbit, Result: slight irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : rabbit, Result: Mild eye irritation, standardised international/national methodology, Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation : Skin sensitisation
  - : Maximisation Test, guinea pig, Result: Sensitising, standardised international/national methodology
  - : Respiratory sensitisation, Based on available data, the classification criteria are not met.
- Germ cell mutagenicity
- Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
  - : DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Genotoxicity in vivo : In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
- Carcinogenicity : Based on available data, the classification criteria are not met.
- Reproductive toxicity : Screening for reproductive/developmental toxicity, rat, Exposure time: 16 w, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.





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- Teratogenicity : rat, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- STOT - single exposure : Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure : rat, Oral, Exposure time: 16 w, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
- Aspiration toxicity : Based on available data, the classification criteria are not met.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.  
: Likely route of exposure, Inhalation, Ingestion, Skin contact
- Barium compounds :**
- Acute oral toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Not classified due to lack of data.  
: Likely route of exposure, Inhalation, Ingestion, Skin contact
- Phosphite compounds :**
- Acute oral toxicity : LD50: 16.160 mg/kg, rat
- Skin corrosion/irritation : Causes skin irritation.
- Serious eye damage/eye irritation : Causes serious eye irritation.
- Respiratory or skin sensitisation : May cause an allergic skin reaction.
- Germ cell mutagenicity
- Genotoxicity in vitro : Based on available data, the classification criteria are not met.
- Carcinogenicity : Based on available data, the classification criteria are not met.
- Teratogenicity : Based on available data, the classification criteria are not met.
- STOT - single exposure : Assessment: May cause respiratory irritation.
- STOT - repeated exposure : Not classified due to lack of data.



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Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.  
: Likely route of exposure, Inhalation, Ingestion, Skin contact

**Diisodecyl phenyl phosphite :**

Acute oral toxicity : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: no, Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50: > 11,7 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.

Skin corrosion/irritation : rabbit, Result: slight irritation, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation : rabbit, Result: not irritating, OECD Test Guideline 405, GLP: no, Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Skin sensitisation  
: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes  
: Respiratory sensitisation, Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes  
: DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.

Genotoxicity in vivo : In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.

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

Reproductive toxicity : Read-across (Analogy)  
: Screening for reproductive/developmental toxicity, rat, Oral, Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.

Teratogenicity : Read-across (Analogy)



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- : 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

**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



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- lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes, Based on available data, the classification criteria are not met.
- Genotoxicity in vivo : Genotoxicity in vivo, rat, intraperitoneally, OECD Test Guideline 478, Result: negative
- : Genotoxicity in vivo, mouse, intraperitoneally, OECD Test Guideline 478, Result: negative
- : Genotoxicity in vivo, mouse, Inhalation, OECD Test Guideline 478, Result: negative
- : Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, intraperitoneally, OECD Test Guideline 475, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity : mouse, Skin contact, OECD Test Guideline 451, GLP: yes, Based on available data, the classification criteria are not met.
- Reproductive toxicity : One-generation reproduction toxicity test, rat, Oral
- : Screening for reproductive/developmental toxicity, rat, Skin contact, NOAEL: > 494 mg/kg, OECD Test Guideline 421, Based on available data, the classification criteria are not met.
- Teratogenicity : rat, Inhalation, OECD Test Guideline 414
- : rat, Oral, OECD Test Guideline 414, Based on available data, the classification criteria are not met.
- STOT - single exposure : Assessment: May cause drowsiness or dizziness.
- STOT - repeated exposure : rat, Oral, Exposure time: <= 90 d, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : rat / mouse, Inhalation, Exposure time: 90 d, OECD Test Guideline 413, Based on available data, the classification criteria are not met.
- STOT - repeated exposure : rat, Dermal, Exposure time: 28 d, OECD Test Guideline 410, GLP: yes, Based on available data, the classification criteria are not met.
- Aspiration toxicity : May be fatal if swallowed and enters airways.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
- : Likely route of exposure, Inhalation, Ingestion, Skin contact
- Dibenzoyl methane :**
- Acute oral toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 423, GLP: yes, Based on available data, the classification criteria are not met.



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Acute inhalation toxicity	: study scientifically unjustified
Acute dermal toxicity	: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP: yes
Skin corrosion/irritation	: in vitro assay, Result: not irritating, OECD Test Guideline 439, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: rabbit, Result: not irritating, OECD Test Guideline 405, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation : LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes : Respiratory sensitisation : Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: positive, OECD Test Guideline 476, GLP: yes : Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: positive, OECD Test Guideline 487, GLP: yes, Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified due to lack of data.
Reproductive toxicity	: Not classified due to lack of data.
Teratogenicity	: Not classified due to lack of data.
STOT - single exposure	: Remarks: Not classified due to lack of data.
STOT - repeated exposure	: Not classified due to lack of data.
Aspiration toxicity	: Not classified due to lack of data.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. : Likely route of exposure, Inhalation, Ingestion, Skin contact
<b>Zinc chloride :</b>	
Acute oral toxicity	: LD50: 1.100 mg/kg, rat, OECD Test Guideline 401, GLP: no, Test substance: Solid
Acute inhalation toxicity	: LC50: 2000 mg/m <sup>3</sup> air, 10 min, rat, GLP: no, Test substance: aerosol, Based on available data, the classification criteria are



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	not met.
Acute dermal toxicity	: Read-across (Analogy) : LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Test substance: Solid, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Causes severe burns.
Serious eye damage/eye irritation	: Causes severe burns.
Respiratory or skin sensitisation	: Skin sensitisation : Read-across (Analogy) : LLNA, mouse, Result: not sensitising, Based on available data, the classification criteria are not met. : Respiratory sensitisation : Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Read-across (Analogy) : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative : Chromosome aberration test in vitro, human cells, Result: negative, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), mouse, Oral, 1 m, Result: positive : Genotoxicity in vivo, Drosophila melanogaster, Oral, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Two-generation reproductive toxicity, rat, Oral, NOAEL: 7,5 mg/kg, OECD Test Guideline 416, GLP: no, Test substance: Solid, Based on available data, the classification criteria are not met.
Teratogenicity	: Read-across (Analogy) : rat / mouse / rabbit / hamster, Oral, Based on available data, the classification criteria are not met.
STOT - single exposure	: Assessment: May cause respiratory irritation.



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- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : rat / mouse, Oral, Exposure time: 13 w, NOAEL: 3000 ppm in diet, OECD Test Guideline 408, GLP: no, Test substance: Solid
- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : rat, Oral, Exposure time: 13 w, NOAEL: 31,52 mg/kg, OECD Test Guideline 408, GLP: yes, Test substance: Solid, Based on available data, the classification criteria are not met.
- Aspiration toxicity : Based on available data, the classification criteria are not met.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.  
: Likely route of exposure, Inhalation, Ingestion, Skin contact

**Triisodecyl phosphite :**

- Acute oral toxicity : LD50: 13.800 mg/kg, rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : Read-across (Analogy)  
: LC50: > 12,6 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Read-across (Analogy)  
: LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : rabbit, Result: slight irritation, standardised international/national methodology, 24 h, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : rabbit, Result: not irritating, standardised international/national methodology, Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation : LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
- Germ cell mutagenicity
- Genotoxicity in vitro : Read-across (Analogy)  
: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes  
: Read-across (Analogy)  
: DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes,



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	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
<b>Benzoic acid :</b>	
Acute oral toxicity	: LD50: ca. 2.565 mg/kg, rat, OECD Test Guideline 401, GLP: no : LD50: 2.250 mg/kg, mouse, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: LC50: > 12,2 mg/l, 4 h, rat, dust/mist, OECD Test Guideline 403, GLP: no, Based on available data, the classification criteria are not met.
Acute dermal toxicity	: LD50: > 2.000 mg/kg, rabbit, GLP: no, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: rabbit, Result: not irritating, Directive 67/548/EEC, Annex V, B.4., 4 h, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: rabbit, Result: Corrosive, Directive 67/548/EEC, Annex V, B.5., GLP: yes
Respiratory or skin sensitisation	: Skin sensitisation





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- : LLNA, mouse, Result: not sensitising, standardised international/national methodology
- : Buehler Test, guinea pig, Result: not sensitising, standardised international/national methodology, 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
  - : Mutagenicity (in vitro mammalian cytogenetic test), CHL, OECD Test Guideline 473, Based on available data, the classification criteria are not met.
- Carcinogenicity
  - : Based on available data, the classification criteria are not met.
- Reproductive toxicity
  - : Reproduction Test, rat, Oral, Based on available data, the classification criteria are not met.
- Teratogenicity
  - : rat(female), Oral, Based on available data, the classification criteria are not met.
- STOT - single exposure
  - : Exposure routes: Inhalation
  - Target Organs: Lungs
  - Assessment: May cause respiratory irritation.
- STOT - repeated exposure
  - : rat, Oral, Based on available data, the classification criteria are not met.
- STOT - repeated exposure
  - : rabbit, Dermal, Exposure time: 21 days, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- STOT - repeated exposure
  - : rat, Inhalation, Exposure time: 4 weeks, OECD Test Guideline 412, 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
  
- Triphenyl phosphite :**
- Acute oral toxicity
  - : LD50: 1.590 mg/kg, rat, OECD Test Guideline 401, GLP: yes
- Acute inhalation toxicity
  - : LC50: > 6,7 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met.



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Acute dermal toxicity	: LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: guinea pig, Result: slight irritation, standardised international/national methodology, 24 h
Serious eye damage/eye irritation	: rabbit, Result: irritating, OECD Test Guideline 405, GLP: no
Respiratory or skin sensitisation	: Skin sensitisation  : LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes  : Respiratory sensitisation, Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes  : DNA repair-suspension assay, Bacteria, Result: negative, Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Screening for reproductive/developmental toxicity, rat, Oral, NOAEL: F1: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: rat, Oral, NOAEL: 15 mg/kg bw/day, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Oral, Exposure time: 16 weeks, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.  : Likely route of exposure, Inhalation, Ingestion, Skin contact



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**11.2 Carcinogenicity**

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

**12. Ecological information**

**12.1 Toxicity**

**Components:**

**Isodecyl diphenyl phosphite :**

- Toxicity to fish : study technically not feasible
- Toxicity to daphnia and other aquatic invertebrates : study technically not feasible
- Toxicity to algae : study technically not feasible
- Toxicity to bacteria : study technically not feasible

**Ecotoxicology Assessment**

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

**Barium compounds :**

**Ecotoxicology Assessment**

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

**Phosphite compounds :**

- Toxicity to fish : LC50: 2.917 mg/l, 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50: 3.815 mg/l, 48 h, Daphnia magna (Water flea)

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**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)



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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.

**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 referred 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 referred to the Water accumulated fraction (WAF).

Toxicity to algae : EL50: 1,3 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes, Value referred to the Water accumulated fraction (WAF).

Toxicity to bacteria : LL50: 677,9 mg/l, 72 h, Tetrahymena pyriformis, QSAR, GLP: no

Toxicity to fish (Chronic toxicity) : NOEL: 0,098 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR, GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 0,48 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes, Value referred to the Water accumulated fraction (WAF).

**Ecotoxicology Assessment**

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

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

**Dibenzoyl methane :**

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

Toxicity to daphnia and other aquatic invertebrates : LC50: 7,519 mg/l, 48 h, QSAR

Toxicity to algae : 2,68 mg/l, 96 h, QSAR

**Ecotoxicology Assessment**

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

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

**Zinc chloride :**

Toxicity to fish :  
: Read-across (Analogy)  
: LC50: 0,169 mg Zn/l, 96 h, Oncorhynchus mykiss (rainbow trout)



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- :
  - Read-across (Analogy)
  - : LC50: 0.330 - 0.780 mg Zn/l, 96 h, Pimephales promelas (fathead minnow)
  
- Toxicity to daphnia and other aquatic invertebrates :
  - Read-across (Analogy)
  - : LC50: 0.147 - > 0,53 mg Zn/l, Ceriodaphnia dubia (water flea)
  
- Toxicity to algae :
  - Read-across (Analogy)
  - : IC50: 0,136 mg Zn/L, 72 h, Selenastrum capricornutum (green algae)
  
- Toxicity to bacteria :
  - Read-across (Analogy)
  - : EC50: 5,2 mg Zn/l, 3 h, activated sludge
  
- Toxicity to fish (Chronic toxicity) :
  - Read-across (Analogy)
  - NOEC: 0,044 - 0,530 mg Zn/L, Fresh water
  
  - Read-across (Analogy)
  - NOEC: 0,025 mg Zn/L, Marine water
  
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
  - Read-across (Analogy)
  - NOEC: 0,037 - 0,400 mg Zn/L, Fresh water
  
  - Read-across (Analogy)
  - NOEC: 0,0056 - 0,9 mg Zn/L, Marine water

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Triisodecyl phosphite :**

- Toxicity to fish : study technically not feasible
- Toxicity to daphnia and other aquatic invertebrates : study technically not feasible
- Toxicity to algae : study technically not feasible
- Toxicity to bacteria : study technically not feasible
- Toxicity to fish (Chronic toxicity) : study technically not feasible



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : study technically not feasible

**Ecotoxicology Assessment**

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

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

**Benzoic acid :**

Toxicity to fish : LC50: 44,6 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish), static test, standardised international/national methodology

Toxicity to daphnia and other aquatic invertebrates : EC50: 102 mg/l, 24 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202

: LC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), standardised international/national methodology

Toxicity to algae : EC50: > 100 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), Growth inhibition, OECD Test Guideline 201, GLP: yes

Toxicity to bacteria : IC50: > 1.000 mg/l, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : study scientifically unjustified

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : study scientifically unjustified

**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.

**Triphenyl phosphite :**

Toxicity to fish : study technically not feasible

Toxicity to daphnia and other aquatic invertebrates : study technically not feasible

Toxicity to algae : study technically not feasible

Toxicity to bacteria : study scientifically unjustified

**Ecotoxicology Assessment**

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

Chronic aquatic toxicity : Classification, Labelling according to EC Directives,



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Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

#### **Isoodecyl diphenyl phosphite :**

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

#### **Barium compounds :**

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

#### **Phosphite compounds :**

Biodegradability :  
no data available

#### **Diisodecyl phenyl phosphite :**

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

#### **Distillates (petroleum), hydrotreated light :**

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

#### **Dibenzoyl methane :**

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

#### **Zinc chloride :**

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

#### **Triisodecyl phosphite :**

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

#### **Benzoic acid :**

Biodegradability : aerobic, Result: Readily biodegradable., Exposure time: >= 56 d, activated sludge, OECD Test Guideline 301

#### **Triphenyl phosphite :**

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



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**12.3 Bioaccumulative potential**

**Components:**

**Isodecyl diphenyl phosphite :**

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

**Barium compounds :**

Bioaccumulation :  
: Read-across (Analogy)  
:  
: Bioaccumulation is unlikely.

**Phosphite compounds :**

Bioaccumulation :  
: no data available

**Diisodecyl phenyl phosphite :**

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

**Distillates (petroleum), hydrotreated light :**

Bioaccumulation :  
: no data available

**Dibenzoyl methane :**

Bioaccumulation :  
: study scientifically unjustified

**Zinc chloride :**

Bioaccumulation :  
: Bioaccumulation is unlikely.

**Triisodecyl phosphite :**

Bioaccumulation :  
: study scientifically unjustified

**Benzoic acid :**

Bioaccumulation :  
: no data available

**Triphenyl phosphite :**

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

**12.4 Mobility in soil**

**Components:**

**Isodecyl diphenyl phosphite :**

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

**Barium compounds :**

Mobility : no data available

**Phosphite compounds :**

Environmental fate and pathways : no data available

**Diisodecyl phenyl phosphite :**

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

**Distillates (petroleum), hydrotreated light :**

Mobility : QSAR, Predicted distribution to environmental compartments,  
Air

Physico-chemical : The product is slightly soluble in water. It can be largely





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removability : eliminated from the water by abiotic processes, e. g. mechanical separation.

**Dibenzoyl methane :**  
Mobility : no data available

**Zinc chloride :**  
Mobility : no data available

**Triisodecyl phosphite :**  
Mobility : QSAR, Predicted distribution to environmental compartments, Soil, Sediment

**Benzoic acid :**  
Mobility : no data available

**Triphenyl phosphite :**  
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

**12.5 Results of PBT and vPvB assessment**

**Components:**

**Isodecyl diphenyl phosphite :**  
Assessment : Based on available data, the classification criteria are not met.

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

**Phosphite 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.

**Distillates (petroleum), hydrotreated light :**  
Assessment : Based on available data, the classification criteria are not met.

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

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

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

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

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

**12.6 Other adverse effects**

**Isodecyl diphenyl phosphite :**  
Further information : No information available.

**Barium compounds :**  
Further information : No information available.

**Phosphite compounds :**  
Further information : No information available.

**Diisodecyl phenyl phosphite :**  
Further information : No information available.



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**Distillates (petroleum), hydrotreated light :**

Further information : No information available.

**Dibenzoyl methane :**

Further information : No information available.

**Zinc chloride :**

Further information : No information available.

**Triisodecyl phosphite :**

Further information : No information available.

**Benzoic acid :**

Further information : No information available.

**Triphenyl phosphite :**

Further information : No information available.

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**13. Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of contents/container in accordance with local/regional/national/international/regulations.

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**14. Transport information**

**14.1 UN number**

**DOT**

Not dangerous goods

**IMDG** : 3082

**IATA** : 3082

**14.2 Proper shipping name**

**DOT**

Not dangerous goods

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light and zinc chloride)

**IATA** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light and zinc chloride)



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**14.3 Transport hazard class**

**DOT**

Not dangerous goods

**IMDG** : 9

**IATA** : 9

**14.4 Packing group**

**DOT**

Not dangerous goods

**IMDG**

Packaging group : III

Labels : 9

EmS Number : F-A, S-F

**IATA**

Packing instruction (cargo aircraft) : 964

Packaging group : III

Labels : 9

**14.5 Environmental hazards**

**DOT**

Not dangerous goods

**IMDG**

Marine Pollutant : yes

**IATA**

Marine Pollutant : yes

**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



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## 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	11.4
Zinc compounds	N982	2.3

### National Legislation:

### Registration Status:

TSCA	: listed
DSL	: listed
CHINA	: listed

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## 16. Other information

**Date of Preparation or last change: 19.12.2016**

### HMIS Rating (USA)

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



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**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.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.