



**CX 1070/4**

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**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : **CX 1070/4**

**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.

**Manufacturer or supplier's details**

Company name of supplier : Baerlocher Production USA LLC  
513-604-2327

Address : 5890 Highland Ridge Drive  
Cincinnati OH 45232

Emergency telephone num-  
ber : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887  
(outside U.S.) Collect calls are accepted

E-mail address : Hotline.PS@baerlocher.com

Responsible/issuing person : Product Safety Department

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Eye irritation : Category 2A

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity  
- repeated exposure : Category 2 (Nervous system)

Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.



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H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary statements

:

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

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.



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**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Diisodecyl phenyl phosphite	25550-98-5	≥ 20*
Isodecyl diphenyl phosphite	26544-23-0	≥ 20*
Barium Compounds*	Trade Secret	< 20*
White mineral oil (petroleum)	8042-47-5	≥ 10*
Zinc Compounds*	Trade Secret	< 20*
Triphenyl Phosphite	101-02-0	< 5*
Diphenyl phosphite	4712-55-4	< 5*
1,3-Diphenylpropane-1,3-dione	120-46-7	< 5*

\*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 : 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 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  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Sand
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Smoke and fumes, toxic.



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- Further information : Release of Phenol by hydrolysis.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency 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.  
Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : 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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Barium, soluble compounds (as Ba)	Not Assigned	air 8 h	0.5 mg/m <sup>3</sup> (Barium)	ACGIH
		PEL	0.5 mg/m <sup>3</sup> (Barium)	OSHA
		TWA	0.5 mg/m <sup>3</sup> (Barium)	NIOSH REL
White mineral oil (petroleum)	8042-47-5	air 8 h	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	NIOSH REL
		STEL	10 mg/m <sup>3</sup>	NIOSH REL
		PEL	5 mg/m <sup>3</sup>	OSHA Z-1
Particulates Not Otherwise Regulated (PNOR) Respirable fraction		PEL	5 mg/m <sup>3</sup>	OSHA
		TWA	3 mg/m <sup>3</sup>	ACGIH TLV



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**Engineering measures** : Local exhaust

**Personal protective equipment**

Respiratory protection : Up to 0.5 mg/m<sup>3</sup>: (APF=10) Any air-purifying respirator with a high-efficiency particulate filter/(APF=10) Any air-supplied respirator

Hand protection

Glove thickness :  $\geq 0.7$  mm

Directive : protective gloves acc. to EN 374, e.g. neoprene

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing  
Rubber apron

Protective measures : antistatic shoes

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.  
Handle in accordance with good industrial hygiene and safety practice.  
Regular cleaning of equipment, work area and clothing.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : yellowish

Odor : characteristic

Odor Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : 218 - 800 °C  
Value refers to the solvent.

Flash point :  $> 100$  °C

Evaporation rate : No data available

Flammability (liquids) : Combustible Liquid

Upper explosion limit : No data available

Lower explosion limit : No data available



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Vapor pressure	:	0.1 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/cm <sup>3</sup>
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	325 - 355 °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	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Keep away from heat and sources of ignition.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: 2,618 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 11.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:**

**Diisodecyl phenyl phosphite:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 11.7 mg/l  
Exposure time: 1 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.

**Isodecyl diphenyl phosphite:**

Acute oral toxicity : LD50 (Rat): 3,840 mg/kg  
Method: standardised international/national methodology  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 8.4 mg/l  
Exposure time: 1 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): > 5,000 mg/kg  
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



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Acute inhalation toxicity : Remarks: Classification  
Labelling according to EC Directives  
Regulation (EC) No 1272/2008, Annex VI, Table 3  
Acute inhalation toxicity  
Category 4

**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: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Read-across (Analogy)  
  
LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria  
are not met.

**Triphenyl phosphite:**

Acute oral toxicity : LD50 (Rat): 1,590 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 6.7 mg/l  
Exposure time: 1 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.

**1,3-Diphenylpropane-1,3-dione:**

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  
GLP: yes





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### Skin corrosion/irritation

#### Components:

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: slight irritation

GLP: yes

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

##### **Isodecyl diphenyl phosphite:**

Species: Rabbit

Method: standardised international/national methodology

Result: slight irritation

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.

#### **Triphenyl phosphite:**

Species: Guinea pig

Exposure time: 24 h

Method: standardised international/national methodology

Result: slight irritation

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

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

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

### Serious eye damage/eye irritation

#### Components:

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

Species: Rabbit

Result: not irritating

Method: OECD Test Guideline 405

GLP: no

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



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**Isodecyl diphenyl phosphite:**

Species: Rabbit

Result: slight irritation

Method: standardised international/national methodology

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

**2-(2-Butoxyethoxy) ethanol:**

Species: Rabbit

Result: highly  
irritating

Method: OECD Test Guideline 405

GLP: no

**Zinc Compounds:**

Remarks: Read-across (Analogy)

Species: Rabbit

Result: irritating

Method: OECD Test Guideline 405

GLP: yes

**Triphenyl phosphite:**

Species: Rabbit

Result: irritating

Method: OECD Test Guideline 405

GLP: no

**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.

**Respiratory or skin sensitisation**

**Components:**

**Diisodecyl phenyl phosphite:**

Remarks: Skin sensitisation

Test Type: LLNA

Species: Mouse

Method: OECD Test Guideline 429

Result: Sensitising

GLP: yes

Remarks: Respiratory sensitisation

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

of data.

**Isodecyl diphenyl phosphite:**

Remarks: Skin sensitisation



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Test Type: Maximisation Test  
Species: Guinea pig  
Method: standardised international/national methodology  
Result: Sensitising

Remarks: Respiratory sensitisation  
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.

### **Triphenyl phosphite:**

Remarks: Skin sensitisation

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

Remarks: Respiratory sensitisation  
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

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

### **Germ cell mutagenicity Components:**

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

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



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Genotoxicity in vitro : Test Type: DNA repair-suspension assay  
Species: Bacteria  
Method: standardised international/national methodology  
Result: negative  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Isodecyl diphenyl phosphite:**

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

: Test Type: DNA repair-suspension assay  
Species: Bacteria  
Method: standardised international/national methodology  
Result: negative  
GLP: yes

: Remarks: Read-across (Analogy)

: Test Type: Micronucleus test  
Species: Human lymphocytes  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Zinc Compounds:**

Genotoxicity in vitro : Remarks: Read-across (Analogy)



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

**Triphenyl phosphite:**

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

: Test Type: DNA repair-suspension assay  
Species: Bacteria  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
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

: 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.

**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:**

**Diisodecyl phenyl phosphite:**

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

**Isodecyl diphenyl phosphite:**

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.

**Triphenyl phosphite:**

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.

**Reproductive toxicity**

**Components:**

**Diisodecyl phenyl phosphite:**

Effects on fertility : Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
General Toxicity F1: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity  
Species: Rat  
Application Route: Oral  
Test period: 8 weeks  
NOAEL: 1,000 mg/kg,  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.



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Effects on foetal development

: Remarks: Read-across (Analogy)

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.  
Remarks: Read-across (Analogy)  
Species: Rat  
  
Application Route: Oral  
1,000 mg/kg  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Isodecyl diphenyl phosphite:**

Effects on fertility

: Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: 15  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity  
Species: Rat  
Application Route: Oral  
NOAEL: 15 mg/kg,  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.



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Effects on foetal development : Remarks: Read-across (Analogy)

Species: Rat  
Application Route: Oral  
Teratogenicity: 15  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Remarks: Read-across (Analogy)  
Species: Rat  
Application Route: Oral  
15 mg/kg  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**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.

**Triphenyl phosphite:**

Effects on fertility :  
Test Type: Screening for reproductive/developmental toxicity  
Species: Rat  
Application Route: Oral  
NOAEL:  
F1: 15 mg/kg,  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Species: Rat  
Application Route: Oral  
15 mg/kg bw/day  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.





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**1,3-Diphenylpropane-1,3-dione:**

Effects on fertility : Remarks: Not classified due to lack of data.

Remarks: Not classified due to lack of data.

Effects on foetal development : Remarks: Not classified due to lack of data.  
Remarks: Not classified due to lack of data.

**STOT - single exposure**

**Components:**

**Diisodecyl phenyl phosphite:**

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

**Isodecyl diphenyl phosphite:**

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

**Zinc Compounds:**

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

**Triphenyl phosphite:**

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.

**Repeated dose toxicity**

**Components:**

**Diisodecyl phenyl phosphite:**

Remarks: Read-across (Analogy)

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Oral

Method: OECD Test Guideline 422

GLP: yes

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

**Isodecyl diphenyl phosphite:**

Remarks: Read-across (Analogy)

Species: Rat

NOAEL: 15 mg/kg

Application Route: Oral

Exposure time: 16 w

Method: OECD Test Guideline 422

GLP: yes

Remarks: May cause damage to organs through prolonged or repeated exposure.



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**Zinc Compounds:**

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

**Triphenyl phosphite:**

Species: Rat  
NOAEL: 40 mg/kg  
Application Route: Oral  
Method: OECD Test Guideline 422  
GLP: yes

**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.

**Aspiration toxicity**

**Components:**

**Diisodecyl phenyl phosphite:**

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

**isodecyl diphenyl phosphite:**

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

**White mineral oil (petroleum):**

May be fatal if swallowed and enters airways.

**Zinc Compounds:**

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

**Triphenyl phosphite:**

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

**1,3-Diphenylpropane-1,3-dione:**

Not classified due to lack of data.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Diisodecyl phenyl phosphite:**

Toxicity to fish : (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203



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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.2 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 45 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: 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.

**Ecotoxicology Assessment**

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

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

**Isodecyl diphenyl phosphite:**

Toxicity to fish : Remarks: study technically not feasible

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

Toxicity to algae : Remarks: study technically not feasible

Toxicity to bacteria : Remarks: study technically not feasible

**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., Upon contact with water PDDP readily hydrolyses into a mixture of phosphorous acid, isodecanol and phenol in an approximate molar ratio of 1:2:1., Ecological data therefore refers only to the effects of the decomposition products.

**Barium Compounds:**

**Ecotoxicology Assessment**

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

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

**Zinc Compounds:**

Toxicity to fish : Remarks: Read-across (Analogy)



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	EC50 (Fish): $\geq 0.169$ mg/l Exposure time: 48 h Remarks: Zinc
	EC50 (Fish): $\leq 0.78$ mg/l Exposure time: 48 h Remarks: Zinc
	LC50 ( <i>Oryzias latipes</i> ): $> 100$ mg/l Exposure time: 96 h Remarks: Carboxylic acid
Toxicity to daphnia and other aquatic invertebrates	: Remarks: Read-across (Analogy)
	EC50 ( <i>Ceriodaphnia dubia</i> (water flea)): $\geq 0.147$ mg/l Exposure time: 48 h Remarks: Zinc
	EC50 ( <i>Daphnia magna</i> (Water flea)): 85.4 mg/l Exposure time: 48 h Remarks: Carboxylic acid
Toxicity to algae	: Remarks: Read-across (Analogy)
	IC50 ( <i>Selenastrum capricornutum</i> (green algae)): 0.136 mg/l Remarks: Zinc
	NOEC ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 0.019 mg/l Remarks: Zinc
	NOEC (Marine species): $\geq 0.0078$ mg/l Remarks: Zinc
	NOEC (Marine species): $\leq 0.67$ mg/l Remarks: Zinc
	EC50 ( <i>Desmodesmus subspicatus</i> (green algae)): 49.3 mg/l Remarks: Carboxylic acid
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to fish (Chronic toxicity)	: Remarks: Read-across (Analogy)
	NOEC (Fish): $\geq 0.044$ mg/l Test Type: Fresh water Remarks: Zinc
	NOEC (Fish): $\leq 0.530$ mg/l Test Type: Fresh water Remarks: Zinc
	NOEC (Fish): 0.025 mg/l Test Type: Marine water Remarks: Zinc



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Chronic Toxicity Value (Fish): 17.7 mg/l  
Test Type: Fresh water  
Method: QSAR  
Remarks: Carboxylic acid

Chronic Toxicity Value (Fish): 40.2 mg/l  
Test Type: Marine water  
Method: QSAR  
Remarks: Carboxylic acid

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC:  $\geq 0.014$  mg/l  
Test Type: Fresh water  
Remarks: Zinc

NOEC:  $\leq 0.4$  mg/l  
Test Type: Fresh water  
Remarks: Zinc

NOEC:  $\geq 0.0056$  mg/l  
Test Type: Marine water  
Remarks: Zinc

NOEC:  $\leq 0.9$  mg/l  
Test Type: Marine water  
Remarks: Zinc

NOEC: 18 mg/l  
Test Type: Fresh water  
Remarks: Carboxylic acid

Toxicity to bacteria : Remarks: Read-across (Analogy)

NOEC (activated sludge): 0.1 mg/l  
Exposure time: 4 h  
Test Type: static test  
Remarks: Zinc

EC50 (Pseudomonas putida): 112.1 mg/l  
Exposure time: 17 h  
Test Type: static test  
Remarks: Carboxylic acid

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Triphenyl phosphite:**

Toxicity to fish : Remarks: study technically not feasible

Toxicity to daphnia and other : Remarks: study technically not feasible



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aquatic invertebrates  
Toxicity to algae : Remarks: study technically not feasible

Toxicity to bacteria : Remarks: study scientifically unjustified

**Ecotoxicology Assessment**

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

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

**1,3-Diphenylpropane-1,3-dione:**

Toxicity to fish : LC50: 11.313 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to daphnia and other : LC50: 7.519 mg/l  
aquatic invertebrates : 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.

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

**Persistence and degradability**

**Components:**

**Diisodecyl phenyl phosphite:**

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



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**Isodecyl diphenyl phosphite:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

**Barium Compounds:**

Biodegradability : 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: 99 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E  
GLP: no

**Triphenyl phosphite:**

Biodegradability : aerobic  
Result: Not readily biodegradable.  
Biodegradation: 2.46 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: No information available.

**1,3-Diphenylpropane-1,3-dione:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

**Bioaccumulative potential**

**Components:**

**Diisodecyl phenyl phosphite:**

Bioaccumulation : Bioconcentration factor (BCF): 33.27 - 606.5  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 9.32 (20 °C)



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**Isodecyl diphenyl phosphite:**

Bioaccumulation : Bioconcentration factor (BCF): 606.5  
Method: QSAR

**Barium Compounds:**

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

**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

**Triphenyl phosphite:**

Bioaccumulation : Bioconcentration factor (BCF): 862.2 - 10,902  
Method: QSAR  
Remarks: Hydrolysis  
not considered

**1,3-Diphenylpropane-1,3-dione:**

Bioaccumulation : Remarks: study scientifically unjustified

Partition coefficient: n-octanol/water : log Pow: < 3

**Mobility in soil**

**Components:**

**Diisodecyl phenyl phosphite:**

Mobility : Method: QSAR  
Remarks: Predicted distribution to environmental compartments  
Sediment  
Soil

**Isodecyl diphenyl phosphite:**

Mobility : Method: QSAR  
Remarks: Predicted distribution to environmental compartments  
Sediment  
Soil

**Barium Compounds:**

Mobility : Remarks: No data available





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**Zinc Compounds:**

Mobility : Remarks: Read-across (Analogy)  
Method: QSAR  
Remarks: Predicted distribution to environmental compartments  
Water

**Triphenyl phosphite:**

Mobility : Method: QSAR  
Remarks: Predicted distribution to environmental compartments  
Sediment  
Soil

**1,3-Diphenylpropane-1,3-dione:**

Mobility : Remarks: No data available

**Other adverse effects**

**Components:**

**Diisodecyl phenyl phosphite:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.

**Isodecyl diphenyl phosphite:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.

**Barium Compounds:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.

**2-(2-Butoxyethoxy) ethanol:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.

**Zinc Compounds:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.

**Triphenyl phosphite:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.  
Endocrine disrupting potential : No information available.



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**1,3-Diphenylpropane-1,3-dione:**

Results of PBT and vPvB : Based on available data, the classification criteria are not met.  
assessment  
Endocrine disrupting poten- : No information available.  
tial

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**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.  
  
Dispose in accordance with local, state and federal regula-  
tions.  
  
Contaminated packaging : 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**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(diphenyl phosphonate, diphenyl(isodecyl)phosphite, solution)  
Class : 9  
Packing group : III

Labels : Miscellaneous  
Packing instruction (cargo : 964  
aircraft)  
Packing instruction (passen- : 964  
ger aircraft)

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(diphenyl phosphonate, diphenyl(isodecyl)phosphite, solution)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.



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## 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	12.6
Zinc Compounds (N982)	Not Assigned	8.2

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

EINECS	listed
TSCA	listed
DSL	listed
AICS	listed
ECL	listed
PICCS	listed
CHINA	listed

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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 Develop-



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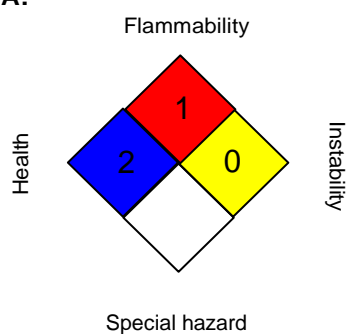
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ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - 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; TECI - Thailand Existing Chemicals 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**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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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