



## BAEROSTAB CT 9169 X RF-US

Version 1.2

Revision Date 07/24/2023

### SECTION 1. IDENTIFICATION

#### Product identifier

Trade name : **BAEROSTAB CT 9169 X RF-US**

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

Use of the Sub-  
stance/Mixture : Manufacture of plastics products  
Polymer additive  
Stabilizer

Recommended restrictions  
on use : None known.

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

Company : Baerlocher Production USA LLC  
5890 Highland Ridge Drive  
Cincinnati, OH 45232

Telephone : 513-604-2327

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

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

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

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.



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P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Combustible material

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

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

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Phosphorous acid, tri-C12-15-alkyl esters	68610-62-8	≥ 50*
Triisodecyl phosphite	25448-25-3	≥ 25*
Zinc Compounds*	Trade Secret	< 20*
Alcohols, C12-15	63393-82-8	< 10*
2,6-di-tert-butyl-p-cresol	128-37-0	< 10*
Zinc Compounds*	Trade Secret	< 10*
Calcium Compounds*	Trade Secret	< 10*

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



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### 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 with plenty of water.
- 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.

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### 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.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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### 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.



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**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
2,6-di-tert-butyl-p-cresol	128-37-0	air 8 h	2 mg/m <sup>3</sup>	ACGIH
		TWA	10 mg/m <sup>3</sup>	Z1A
		TWA	10 mg/m <sup>3</sup>	NIOSH REL

**Engineering measures** : Local exhaust

**Personal protective equipment**

Respiratory protection : In case of inadequate ventilation wear respiratory protection.  
Protective mask against solvent vapours (A2 Filter)

Hand protection

- Material : protective gloves acc. to EN 374, e.g. neoprene  
Glove thickness :  $\geq 0.7$  mm

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.



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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	:	260 - 290 °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
Vapor pressure	:	No data available
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	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Refractive index	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY



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Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	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.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

Acute oral toxicity	:	LD50 (Rat): 47,009 mg/kg
Acute dermal toxicity	:	LD50 (Rat): 74,259 mg/kg

**Triisodecyl phosphite:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 12.6 mg/l
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

**Zinc Compounds:**

Acute oral toxicity	:	LD50: > 2,000 mg/kg Method: Acute toxicity estimate Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.



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Acute dermal toxicity : LD50: > 2,000 mg/kg  
Method: Acute toxicity estimate  
Remarks: Based on available data, the classification criteria are not met.

**Alcohols, C12-15:**

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

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 1 h  
Remarks: Based on available data, the classification criteria are not met.

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

**2,6-di-tert-butyl-p-cresol:**

Acute oral toxicity : LD50 (Rat): > 2,930 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

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

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Zinc Compounds:**

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

Acute inhalation toxicity : Remarks: Read-across (Analogy)  
  
LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on available data, the classification criteria are not met.



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Acute dermal toxicity : Remarks: Read-across (Analogy)  
LD50 (Rabbit): >  
Remarks: Based on available data, the classification criteria are not met.

**Calcium Compounds:**

Acute oral toxicity : Remarks: Read-across (Analogy)  
(Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
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  
Method: OECD Test Guideline 402  
Remarks: Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

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

**Triisodecyl phosphite:**

Remarks: Causes skin irritation.

**Zinc Compounds:**

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

**Alcohols, C12-15:**

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

**2,6-di-tert-butyl-p-cresol:**

Species: Rabbit  
Exposure time: 24 h  
Result: slight irritation





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

### **Zinc Compounds:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: not irritating

GLP: yes

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

### **Calcium Compounds:**

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: Causes skin irritation.

GLP: yes

Species: In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX

Method: OECD Test Guideline 435

Result: No corrosion

GLP: yes

### **Serious eye damage/eye irritation**

#### **Components:**

#### **Phosphorous acid, tri-C12-15-alkyl esters:**

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

#### **Triisodecyl phosphite:**

Remarks: Causes serious eye irritation.

### **Zinc Compounds:**

Species: Rabbit

Result: not irritating

Method: OECD Test Guideline 405

GLP: yes

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

### **Alcohols, C12-15:**

Result: Causes serious eye irritation.

### **2,6-di-tert-butyl-p-cresol:**

Species: Rabbit

Result: slight irritation

Exposure time: 72 h

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

### **Zinc Compounds:**

Species: Rabbit



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

### **Calcium Compounds:**

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

### **Respiratory or skin sensitisation**

#### **Components:**

#### **Phosphorous acid, tri-C12-15-alkyl esters:**

Remarks: May cause an allergic skin reaction.

#### **Triisodecyl phosphite:**

Remarks: May cause an allergic skin reaction.

#### **Zinc Compounds:**

Remarks: Skin sensitisation

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

Remarks: Respiratory sensitisation

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

#### **Alcohols, C12-15:**

Remarks: No data available

#### **2,6-di-tert-butyl-p-cresol:**

Remarks: Skin sensitisation

Test Type: Patch Test 24 Hrs.  
Species: Humans  
Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

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

#### **Zinc Compounds:**

Remarks: Skin sensitisation  
Read-across (Analogy)



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

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

### Calcium Compounds:

Remarks: Skin sensitisation

Remarks: Read-across (Analogy)

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

GLP: yes

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

Remarks: Respiratory sensitisation

Not classified due to lack of data.

### Germ cell mutagenicity

#### Components:

#### Phosphorous acid, tri-C12-15-alkyl esters:

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

#### Triisodecyl phosphite:

Germ cell mutagenicity - Assessment : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Zinc Compounds:

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

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

#### Alcohols, C12-15:

Genotoxicity in vitro : Remarks: No data available

#### 2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Species: Bacteria  
Result: negative



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GLP: no

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: Chinese hamster ovary cells  
Result: negative  
GLP: no

: Test Type: In vitro gene mutation study in mammalian cells  
Species: mouse lymphoma cells  
Result: contradictory  
GLP: no

: Test Type: In vitro gene mutation study in mammalian cells  
Species: Liver cells (rat)  
Result: negative  
GLP: no  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo

: Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative  
GLP: no

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Oral  
Exposure time: 9 months  
Result: negative  
GLP: no  
Remarks: Based on available data, the classification criteria are not met.

**Zinc Compounds:**

Genotoxicity in vitro

: Remarks: Read-across (Analogy)

: Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

**Calcium Compounds:**

Genotoxicity in vitro

: Remarks: Read-across (Analogy)

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



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- : Remarks: Read-across (Analogy)
- : Test Type: In vitro mammalian cell gene mutation test  
Species: mouse lymphoma cells  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes
- : Remarks: Read-across (Analogy)
- : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: negative  
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.

#### **Components:**

##### **Phosphorous acid, tri-C12-15-alkyl esters:**

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

##### **Triisodecyl phosphite:**

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

##### **Zinc Compounds:**

Remarks: Not classified due to lack of data.

##### **Alcohols, C12-15:**

Remarks: No data available

##### **2,6-di-tert-butyl-p-cresol:**

Species: Rat

Application Route: Oral

Method: standardised international/national methodology

GLP: yes

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

##### **Zinc Compounds:**

Remarks: Read-across (Analogy)



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

**Calcium Compounds:**

Remarks: No data available

**Reproductive toxicity**

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

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

**Zinc Compounds:**

Effects on fertility :

Remarks: Read-across (Analogy)

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

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

**Alcohols, C12-15:**

Effects on fertility :

Remarks: No data available

**2,6-di-tert-butyl-p-cresol:**

Effects on fertility :

Species: Rat  
Application Route: Oral  
Test period: 22 months

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

Effects on foetal development : Species: Rat  
Application Route: Oral  
Test period: 22 months  
Method: standardised international/national methodology  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Zinc Compounds:**



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Effects on fertility

:

Remarks: Read-across (Analogy)

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

Effects on foetal development

:

Remarks: Read-across (Analogy)

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

**Calcium Compounds:**

Effects on fertility

:

Remarks: Read-across (Analogy)

Test Type: Three-generation study

Species: Rat

Application Route: Oral

NOAEL: > 75 mg/kg,

Method: OECD Test Guideline 416

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

Effects on foetal development

:

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral

>75 mg/kg

Method: OECD Test Guideline 416

GLP: yes

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

**STOT - single exposure**

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

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

**Triisodecyl phosphite:**

Remarks: Not classified

**Zinc Compounds:**

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

**2,6-di-tert-butyl-p-cresol:**

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



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### **Zinc Compounds:**

Remarks: Read-across (Analogy)

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

### **Calcium Compounds:**

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

### **STOT - repeated exposure**

#### **Components:**

##### **Triisodecyl phosphite:**

Remarks: Not classified

### **Repeated dose toxicity**

#### **Components:**

##### **Phosphorous acid, tri-C12-15-alkyl esters:**

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.

### **Alcohols, C12-15:**

Remarks: No data available

### **2,6-di-tert-butyl-p-cresol:**

Species: Rat

Application Route: Oral

Method: standardised international/national methodology

GLP: yes

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.

### **Calcium Compounds:**

Remarks: Read-across (Analogy)

Species: Rat

NOAEL: 300 mg/kg

Application Route: Oral





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Exposure time: 28 d

Remarks: Read-across (Analogy)

### Aspiration toxicity

#### Components:

##### **Triisodecyl phosphite:**

No data available

##### **Zinc Compounds:**

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

##### **Alcohols, C12-15:**

No data available

##### **2,6-di-tert-butyl-p-cresol:**

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

##### **Zinc Compounds:**

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

##### **Calcium Compounds:**

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

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Phosphorous acid, tri-C12-15-alkyl esters:**

Toxicity to fish : LD50: 2,888 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50: 3,778 mg/l  
aquatic invertebrates Exposure time: 48 h

#### **Ecotoxicology Assessment**

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

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

##### **Zinc Compounds:**

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.69



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mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): < 1.78 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### Ecotoxicology Assessment

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

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

### Alcohols, C12-15:

Toxicity to fish : EC50 (Fish): < 1 mg/l

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : EC50 (algae): < 1 mg/l

Toxicity to bacteria : Remarks: No data available

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### 2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC0 (Danio rerio (zebra fish)):  $\geq 0.57$  mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): 0.15 - 0.23 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)): > 0.4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.39 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: standardised international/national methodology  
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.316 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: standardised international/national methodology  
GLP: yes

Toxicity to bacteria : EC50 (activated sludge): > 10,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: standardised international/national methodology  
GLP: yes

**Zinc Compounds:**

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 0.199 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

(Pseudokirchneriella subcapitata (algae)): 0.065 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1  
M-Factor (Chronic aquatic toxicity) : 1

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Calcium Compounds:**

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

LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

LL50 (Oncorhynchus mykiss (rainbow trout)): < 300 mg/l  
Exposure time: 96 h



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		Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy)  EL50 (Daphnia magna (Water flea)): > 457 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	Remarks: Read-across (Analogy)  EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	:	Remarks: Read-across (Analogy)  Chronic Toxicity Value (Fish): 1.6 mg/l Exposure time: 30 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: Read-across (Analogy)  Chronic Toxicity Value (Daphnia magna (Water flea)): 1.7 mg/l Method: QSAR
Toxicity to bacteria	:	GLP: Remarks: Read-across (Analogy)  EC50 (Escherichia coli): 52.5 mg/l Method: QSAR GLP:

**Ecotoxicology Assessment**

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

**Persistence and degradability**

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

Biodegradability	:	Remarks: No data available
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**Zinc Compounds:**



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Biodegradability : Remarks: Read-across (Analogy)  
Result: Not readily biodegradable.

**Alcohols, C12-15:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e. g. mechanical separation.

**2,6-di-tert-butyl-p-cresol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Exposure time: 112 d  
Method: OECD Test Guideline 301  
GLP: no

aerobic  
Inoculum: activated sludge  
Biochemical oxygen demand  
Result: Partially biodegradable.  
Exposure time: 28 d  
Method: OECD Test Guideline 301

aerobic  
Inoculum: Soil  
Result: Biodegradable  
Exposure time: 24 d  
Method: OECD Test Guideline 304A  
GLP: no

Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

**Zinc Compounds:**

Biodegradability : Remarks: Read-across (Analogy)  
Remarks: Readily biodegradable.

**Calcium Compounds:**

Biodegradability : Remarks: Read-across (Analogy)  
aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 11 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F



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### Bioaccumulative potential

#### Components:

##### **Phosphorous acid, tri-C12-15-alkyl esters:**

Bioaccumulation : Remarks: No data available

##### **Triisodecyl phosphite:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

##### **Zinc Compounds:**

Bioaccumulation : Remarks: Read-across (Analogy)

Remarks: This substance is not considered to be bioaccumulating.

Partition coefficient: n-octanol/water : Remarks: Not applicable

##### **Alcohols, C12-15:**

Bioaccumulation : Remarks: No data available

##### **2,6-di-tert-butyl-p-cresol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 330 - 1,800  
Exposure time: 28 d  
Temperature: 25 °C  
Concentration: 0.005 mg/l  
Method: standardised international/national methodology

Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 230 - 2,500  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.05 mg/l  
Method: standardised international/national methodology

Partition coefficient: n-octanol/water : log Pow: 5

##### **Zinc Compounds:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

##### **Calcium Compounds:**

Bioaccumulation : Remarks: Read-across (Analogy)

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 225  
Exposure time: 14 d



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Method: OECD Test Guideline 305  
GLP: yes

**Mobility in soil**

**Components:**

**Triisodecyl phosphite:**

Mobility : Remarks: No data available

**Zinc Compounds:**

Mobility : Remarks: Not applicable

**Alcohols, C12-15:**

Mobility : Remarks: No data available

**2,6-di-tert-butyl-p-cresol:**

Mobility : Remarks: After release, disperses into the air.

**Zinc Compounds:**

Mobility : Remarks: No data available

**Calcium Compounds:**

Mobility : Remarks: No data available

**Other adverse effects**

**Components:**

**Phosphorous acid, tri-C12-15-alkyl esters:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.

Endocrine disrupting potential : No information available.

**Triisodecyl phosphite:**

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.

**Alcohols, C12-15:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.



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Endocrine disrupting potential : No information available.

**2,6-di-tert-butyl-p-cresol:**

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.

**Calcium Compounds:**

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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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.

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. (2,6-di-tert-butyl-p-cresol, solution)

Class : 9

Packing group : III

Labels : Miscellaneous

**IMDG-Code**

UN number : UN 3082





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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(2,6-di-tert-butyl-p-cresol, 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.

**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.
Zinc Compounds (N982)	Not Assigned	8.3

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

EINECS listed  
TSCA listed  
DSL listed  
AICS listed  
ECL listed  
CHINA listed  
ENCS listed

**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification



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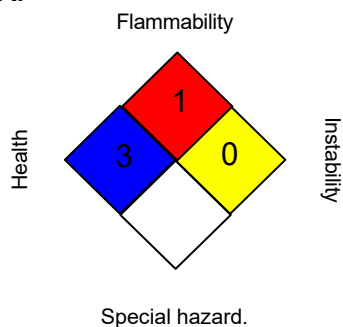
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System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>3</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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