

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## BioPhen Xtra



Version	Revision Date:	SDS Number:	Date of last issue: 14.04.2021
3.1	21.10.2021	103000008507	Country / Language: GB / EN(GB)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : BioPhen Xtra  
Product code : 62608082

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

Use of the Sub-  
stance/Mixture : Disinfectants

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

Supplier : Antec International Limited  
Windham Road  
Chilton Industrial Estate  
CO10 2XD Sudbury / Suffolk, United Kingdom  
Telephone : +4922188852288  
E-mail address of person  
responsible for the SDS : infosds@lanxess.com

### 1.4 Emergency telephone number

+442038850382 mention CCN1001748

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (GB CLP)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
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 - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (GB CLP)

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Hazard pictograms :



Signal word : Danger

Hazard statements :  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

acetic acid  
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.  
chlorocresol  
2-phenylphenol (ISO)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetic acid	64-19-7 200-580-7 607-002-00-6	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 20 - < 25
Benzenesulfonic acid, 4-C10-13- sec-alkyl derivs.	85536-14-7 287-494-3	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 20 - < 25
chlorocresol	59-50-7 200-431-6 604-014-00-3	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor Aquatic Acute: 1	>= 10 - < 20
2-phenylphenol (ISO)	90-43-7 201-993-5 604-020-00-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Chronic: 1	>= 10 - < 20
tetrasodium ethylene diamine tetraacetate	64-02-8 200-573-9 607-428-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	>= 1 - < 3

##### Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
acetic acid	64-19-7 200-580-7	Skin Corr.1A; H314 Skin Corr.1B; H314 Skin Irrit.2; H315	>= 90 % 25 - < 90 % 10 - < 25 %

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		Eye Irrit.2; H319 Skin Corr.1A; H314 Skin Corr.1B; H314 Skin Irrit.2; H315 STOT RE2; H319	10 - < 25 %
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Immediately flush eye(s) with plenty of water.  
Continue rinsing eyes during transport to hospital.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Causes severe burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulphur oxides  
Halogenated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material 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.

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### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Do not smoke.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Smoking, eating and drinking should be prohibited in the application area.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage stability : Stable under recommended storage conditions.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acetic acid	64-19-7	TWA	10 ppm 25 mg/m <sup>3</sup>	2017/164/EU
Further information	Indicative	STEL	20 ppm 50 mg/m <sup>3</sup>	2017/164/EU
Further information	Indicative	STEL	20 ppm 50 mg/m <sup>3</sup>	GB EH40
		TWA	10 ppm 25 mg/m <sup>3</sup>	GB EH40

#### 8.2 Exposure controls

##### Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

##### Personal protective equipment

Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

##### Hand protection

Material : Polychloroprene - CR  
Wearing time : < 60 min

Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Wear suitable protective clothing.

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Recommended Filter type:  
Combined inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK)

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : clear

Colour : brown

Odour : acidic

Odour Threshold : No data available

pH : 2.5 - 3.0  
Concentration: 1 %

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 104 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.09 g/cm<sup>3</sup> (20 °C)

Solubility(ies) : No data available

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

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Ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2 Other information

Metal corrosion rate : Corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Metals  
Strong acids and strong bases

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h

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Test atmosphere: vapour  
Method: Calculation method

### Components:

#### **acetic acid:**

Acute oral toxicity : LD50 (Rat, male and female): 3,310 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 11.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: no

Acute dermal toxicity : LD50 (Rabbit): 1,060 mg/kg

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Acute oral toxicity : LD50 (Rat, male and female): 1,470 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

#### **chlorocresol:**

Acute oral toxicity : LD50 (Rat, male): 1,830 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.871 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **2-phenylphenol (ISO):**

Acute oral toxicity : LD50 (Rat, male and female): 2,733 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC0 (Rat, male and female): > 0.036 mg/l  
Exposure time: 4 h

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Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

### **tetrasodium ethylene diamine tetraacetate:**

Acute oral toxicity : LD50 (Rat): 1,658 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

### **Skin corrosion/irritation**

Causes severe burns.

### **Components:**

#### **acetic acid:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Mild skin irritation  
GLP: No information available.  
Remarks: Aqueous solution

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

#### **chlorocresol:**

Species: Rabbit  
Result: No skin irritation

#### **2-phenylphenol (ISO):**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Irritating to skin.

#### **tetrasodium ethylene diamine tetraacetate:**

Species: Rabbit  
Result: No skin irritation

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

Causes serious eye damage.

#### **Components:**

##### **acetic acid:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

##### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

##### **chlorocresol:**

Species: Rabbit

Result: Risk of serious damage to eyes.

##### **2-phenylphenol (ISO):**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

##### **tetrasodium ethylene diamine tetraacetate:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

##### **acetic acid:**

Assessment: Did not cause sensitisation on laboratory animals.

##### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

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### **chlorocresol:**

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: The product is a skin sensitiser, sub-category 1B.

### **2-phenylphenol (ISO):**

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: no

### **tetrasodium ethylene diamine tetraacetate:**

Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **acetic acid:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat (male and female)  
Application Route: Inhalation  
Method: Regulation (EC) No. 440/2008, Annex, B.12  
Result: negative  
GLP: yes

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: Regulation (EC) No. 440/2008, Annex, B.13/14  
(Ames test)  
Result: negative

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Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### chlorocresol:

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test system: Mammalian-Animal  
Method: OECD Test Guideline 482  
Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative

### 2-phenylphenol (ISO):

Genotoxicity in vitro : Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no

Genotoxicity in vivo : Species: Mouse (male)  
Application Route: Oral  
Result: negative

Test Type: Micronucleus test  
Species: Rat (male)

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Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### **tetrasodium ethylene diamine tetraacetate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **chlorocresol:**

Species: Rat, (male and female)  
Application Route: Oral  
Exposure time: 104 weeks  
NOAEL: 558.9  
Method: OECD Test Guideline 453

#### **2-phenylphenol (ISO):**

Species: Rat, (male)  
Application Route: Oral  
Exposure time: 2 Years  
NOAEL: 200 mg/kg body weight  
Method: OECD Test Guideline 453  
Result: negative  
GLP: yes

Species: Rat, (female)  
Application Route: Oral  
Exposure time: 2 Years  
NOAEL: >= 647 mg/kg body weight  
Method: OECD Test Guideline 453  
Result: negative  
GLP: yes

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **acetic acid:**

Effects on foetal development : Species: Rabbit, female  
Application Route: Oral  
Dose: 1600 milligram per kilogram  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 1,600 mg/kg body weight

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Method: Regulation (EC) No. 440/2008, Annex, B.31  
Result: No adverse effects

### chlorocresol:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity F1: NOAEL: 247.8 mg/kg body weight  
Fertility: NOAEL: 1,043 mg/kg body weight  
Method: OECD Test Guideline 416

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Developmental Toxicity: NOAEL: 100 mg/kg body weight  
Method: OECD Test Guideline 414

### 2-phenylphenol (ISO):

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Duration of Single Treatment: 175 d  
Fertility: NOAEL: >= 500 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.  
GLP: yes

Effects on foetal development : Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 28 d  
Developmental Toxicity: NOAEL: 250 mg/kg body weight  
Method: OECD Test Guideline 414

### STOT - single exposure

May cause respiratory irritation.

#### Components:

#### chlorocresol:

Assessment: May cause respiratory irritation.

#### 2-phenylphenol (ISO):

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

#### tetrasodium ethylene diamine tetraacetate:

Exposure routes: Inhalation

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

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UK REACH Regulations SI 2019/758

## BioPhen Xtra



Version	Revision Date:	SDS Number:	Date of last issue: 14.04.2021
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### Repeated dose toxicity

#### Components:

##### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Species: Rat, male and female  
NOAEL: 40 mg/kg  
Application Route: Oral  
GLP: no  
Remarks: Subchronic toxicity

Species: Rat, male and female  
LOAEL: 115 mg/kg  
Application Route: Oral  
GLP: no  
Remarks: Subchronic toxicity

##### **chlorocresol:**

Species: Rat, male  
NOAEL: 120 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Number of exposures: daily  
Method: OECD Test Guideline 408  
Remarks: Subchronic toxicity

Species: Rat, male and female  
NOAEL: 500 mg/kg  
Application Route: Dermal  
Exposure time: 90 d  
Number of exposures: daily  
Method: OECD Test Guideline 411  
Remarks: Subchronic toxicity

##### **2-phenylphenol (ISO):**

Species: Rat, male  
LOAEL: 200 mg/kg  
Application Route: Oral  
Exposure time: 2 yr  
Method: OECD Test Guideline 453  
GLP: yes  
Remarks: Chronic toxicity

Species: Rat, female  
LOAEL: 647 mg/kg  
Application Route: Oral  
Exposure time: 2 yr  
Method: OECD Test Guideline 453  
GLP: yes  
Remarks: Chronic toxicity

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Species: Rat, male and female  
NOAEL:  $\geq 1,000$  mg/kg  
Application Route: Dermal  
Exposure time: 21 d  
Method: OECD Test Guideline 410  
GLP: yes  
Remarks: Subacute toxicity

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### acetic acid:

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): $> 300.82$ mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Analytical monitoring: no<br>Method: OECD Test Guideline 203<br>GLP: yes<br>Remarks: Fresh water |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): $> 300.82$ mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 202<br>GLP: yes<br>Remarks: Fresh water                 |
| Toxicity to algae                                   | : | EC50 (Skeletonema costatum (marine diatom)): $> 300.82$ mg/l<br>End point: Growth rate<br>Exposure time: 72 h<br>Analytical monitoring: no<br>Method: ISO 10253<br>GLP: yes<br>Remarks: salt water                       |
| Toxicity to microorganisms                          | : | NOEC (Pseudomonas putida): 1,150 mg/l<br>Exposure time: 16 h<br>GLP:   |

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Remarks: Fresh water

### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.67 mg/l  
Exposure time: 96 h  
Remarks: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.9 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 29 mg/l  
Exposure time: 96 h  
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l  
Exposure time: 96 h  
Remarks: Fresh water

Toxicity to fish (Chronic tox- : NOEC: 1 mg/l  
icity) : Exposure time: 28 d  
Species: Lepomis macrochirus (Bluegill sunfish)  
Method: OECD Test Guideline 204  
Remarks: Fresh water

Toxicity to daphnia and other : NOEC: 1.18 mg/l  
aquatic invertebrates (Chron- : Exposure time: 21 d  
ic toxicity) : Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Fresh water

### chlorocresol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.917 mg/l  
Exposure time: 96 h  
Method: EPA OPP 72-1 (Fish Acute Toxicity Test)

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.29 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 30.62 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 9.8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute) : 1  
aquatic hazard)

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Toxicity to microorganisms : EC50 (activated sludge): 41.4 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0.15 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 215

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.32 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 2-phenylphenol (ISO):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4.5 mg/l  
Exposure time: 96 h  
GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.7 mg/l  
Exposure time: 48 h  
Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 3.57 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.468 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC: 0.036 mg/l  
Exposure time: 21 d  
Species: Pimephales promelas (fathead minnow)  
GLP: yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.009 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water

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M-Factor (Long-term (chronic) aquatic hazard) : 1

### **tetrasodium ethylene diamine tetraacetate:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 121 mg/l  
Exposure time: 96 h  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 610 mg/l  
Exposure time: 24 h  
Method: ISO 6341  
Remarks: Fresh water
- Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Remarks: Fresh water
- NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l  
Exposure time: 72 h  
Remarks: Fresh water
- Toxicity to fish (Chronic toxicity) : NOEC: > 25.7 mg/l  
Exposure time: 35 d  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 210  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Fresh water

## 12.2 Persistence and degradability

### **Components:**

#### **acetic acid:**

Biodegradability : Result: Readily biodegradable.

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A  
GLP: yes

#### **chlorocresol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 85 %

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Exposure time: 28 d  
Method: OECD Test Guideline 301D

### **2-phenylphenol (ISO):**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 70.8 - 75.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

### **tetrasodium ethylene diamine tetraacetate:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 10 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B

## 12.3 Bioaccumulative potential

### Components:

#### **acetic acid:**

Partition coefficient: n-octanol/water : log Pow: -0.17

#### **Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:**

Partition coefficient: n-octanol/water : log Pow: 2.2  
Method: OECD Test Guideline 123

#### **chlorocresol:**

Partition coefficient: n-octanol/water : log Pow: 2.73 (25 °C)  
pH: 7.2  
Method: OECD Test Guideline 107

### **2-phenylphenol (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 22

Partition coefficient: n-octanol/water : log Pow: 3.18  
Method: OECD Test Guideline 107

### **tetrasodium ethylene diamine tetraacetate:**

Bioaccumulation : Bioconcentration factor (BCF): 1.8

## 12.4 Mobility in soil

### Components:

#### **2-phenylphenol (ISO):**

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Distribution among environmental compartments : log Koc: 2.4 - 2.6

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.

The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.

The generation of waste should be avoided or minimised wherever possible.  
This material and its container must be disposed of in a safe way.  
Empty containers retain product residue; observe all precautions for product.  
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.  
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3265

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**ADR** : UN 3265  
**RID** : UN 3265  
**IMDG** : UN 3265  
**IATA** : UN 3265

### 14.2 UN proper shipping name

**ADN** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(ACETIC ACID, ALKYL BENZENE SULFONIC ACID, 2-PHENYLPHENOL)  
**ADR** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(ACETIC ACID, ALKYL BENZENE SULFONIC ACID, 2-PHENYLPHENOL)  
**RID** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(ACETIC ACID, ALKYL BENZENE SULFONIC ACID, 2-PHENYLPHENOL)  
**IMDG** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(ACETIC ACID, ALKYL BENZENE SULFONIC ACID, 2-PHENYLPHENOL)  
**IATA** : Corrosive liquid, acidic, organic, n.o.s.  
(ACETIC ACID, ALKYL BENZENE SULFONIC ACID, 2-PHENYLPHENOL)

### 14.3 Transport hazard class(es)

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8



**ADR**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8

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Tunnel restriction code : E

### RID

Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8



### IMDG

Packing group : III  
Labels : 8



### IATA (Cargo)

Packing instruction (cargo aircraft) : 856: 60.00 L  
Packing group : III  
Labels : 8



### IATA (Passenger)

Packing instruction (passenger aircraft) : 852: 5.00 L  
Packing group : III  
Labels : 8



## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

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### ADR

Environmentally hazardous : yes



### RID

Environmentally hazardous : yes



### IMDG

Marine pollutant : yes



### IATA (Passenger)

Environmentally hazardous : yes



### IATA (Cargo)

Environmentally hazardous : yes



### 14.6 Special precautions for user

Hazard statements : Slightly corrosive.  
Environmentally hazardous substance.  
Keep away from foodstuffs, acids and alkalis.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : sulphuric acid
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list: 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	Quantity 1 200 t	Quantity 2 500 t
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#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

Not applicable

### SECTION 16: Other information

#### Full text of H-Statements

- H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.

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- 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.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.
  
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Acute : Short-term (acute) aquatic hazard
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation
- Flam. Liq. : Flammable liquids
- Skin Corr. : Skin corrosion
- Skin Irrit. : Skin irritation
- Skin Sens. : Skin sensitisation
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure
- 2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
  
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- 2017/164/EU / STEL : Short term exposure limit
- 2017/164/EU / TWA : Limit Value - eight hours
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
- GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

### Further information

#### Classification of the mixture:

- Met. Corr. 1                      H290
- Skin Corr. 1C                    H314
- Eye Dam. 1                      H318
- Skin Sens. 1                    H317
- STOT SE 3                      H335
- Aquatic Chronic 2              H411

#### Classification procedure:

- Based on product data or assessment
- Calculation method
- Calculation method
- Calculation method
- Calculation method
- Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to de-

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scribe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.