

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

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

1.1 Product identifier

Trade name : BI-OO-CYST

Product code : 000000000062648162

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

Use of the Sub-stance/Mixture : Veterinary hygiene biocidal products

Recommended restrictions on use : For professional users only.

1.3 Details of the supplier of the safety data sheet

Company : Antec International Limited
Windham Road
CO10 2XD Sudbury / Suffolk
Chilton Industrial Estate, Great Britain

Responsible Department : +49 221 8885 2288
infosds@lanxess.com

1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call
CHEMTREC EMEA: +44 20 3885 0382 and mention
CCN1018725.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin corrosion, Category 1	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.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	  
Signal word	:	Danger
Hazard statements	:	H314 H317 H335 H400 H412 Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 P273 P280 Avoid breathing mist or vapours. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P330 + P331 P303 + P361 + P353 P304 + P340 + P310 P305 + P351 + P338 + P310 P333 + P313 P362 + P364 P391 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. 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. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Hazardous components which must be listed on the label:
chlorocresol
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
acetic acid

SAFETY DATA SHEET

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



BI-OO-CYST

Version 4.0 Revision Date: 28.07.2026 SDS Number: 203000023607 Date of last issue: 12.05.2025
Country / Language: GB / 6N(EN)

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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 (Acute aquatic toxicity): 1	>= 25 - < 30
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
acetic acid	64-19-7 200-580-7 607-002-00-6	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 10 - < 20
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 UK-01-2951808328-1-0001	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 1,200 mg/kg	>= 10 - < 20

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

SAFETY DATA SHEET

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



BI-OO-CYST

Version 4.0 Revision Date: 28.07.2026 SDS Number: 203000023607 Date of last issue: 12.05.2025
Country / Language: GB / 6N(EN)

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 Eye Irrit.2; H319	>= 90 % 25 - < 90 % 10 - < 25 % 10 - < 25 %

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 1, 6, 7, 8, 9, or a letter in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Consult a physician.
Move out of dangerous area.
Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
No action shall be taken involving any personal risk or without suitable training.
- If inhaled : If breathed in, move person into fresh air.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
If unconscious, place in recovery position and get medical attention immediately.
Keep respiratory tract clear.
Loosen tight clothing such as a collar, tie, belt or waistband.
Get medical attention.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Get medical attention immediately.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Remove contact lenses.
Continue to rinse for at least 20 minutes.
Protect unharmed eye.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Chemical burns must be treated promptly by a physician.
Get medical attention immediately.
- If swallowed : DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Rinse mouth with water.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
If unconscious, place in recovery position and get medical attention immediately.
Keep respiratory tract clear.
Get medical attention immediately.

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.
Keep warm and in a quiet place.
Effects may be delayed.

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 : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In a fire or if heated, a pressure increase will occur and the container may burst.
Very toxic to aquatic life with long lasting effects.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Halogenated compounds
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.
Use a water spray to cool fully closed containers.
Collect contaminated fire extinguishing water separately. This

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must
be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : No action shall be taken involving any personal risk or without suitable training.
Put on appropriate personal protection equipment.
Do not touch or walk through spilt material.
Avoid formation of aerosol.
Do not breathe vapours, aerosols.
Avoid contact with skin and eyes.
Ensure adequate ventilation.
In case of inadequate ventilation wear respiratory protection.
Remove all sources of ignition.
Keep unnecessary and unprotected personnel from entering.

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 : Stop leak if safe to do so.
Move containers from spill area.
Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Dispose of wastes in an approved waste disposal facility.
Non-sparking tools should be used.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.
In case of insufficient ventilation, wear suitable respiratory
equipment.
Keep in the original container or an approved alternative made
from a compatible material, kept tightly closed when not in
use.
Dispose of rinse water in accordance with local and national
regulations.
Remove all sources of ignition.
Avoid formation of aerosol.

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue:
4.0	28.07.2026	203000023607	12.05.2025
			Country / Language: GB / 6N(EN)

Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
Persons with a history of 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, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep containers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store in upright position only. Electrical installations / working materials must comply with the technological safety standards. Use appropriate container to avoid environmental contamination. Keep away from heat and sources of ignition.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

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	STEL	20 ppm 50 mg/m ³	GB EH40
		TWA	10 ppm 25 mg/m ³	GB EH40
		TWA	10 ppm 25 mg/m ³	2017/164/EU
	Further information: Indicative			
		STEL	20 ppm 50 mg/m ³	2017/164/EU
	Further information: Indicative			
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m ³	GB EH40

SAFETY DATA SHEET

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

BI-OO-CYST

Version 4.0 Revision Date: 28.07.2026 SDS Number: 203000023607 Date of last issue: 12.05.2025
Country / Language: GB / 6N(EN)

	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	50 ppm 246 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	20 ppm 98 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

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/face protection	: Tightly fitting safety goggles Face-shield
Hand protection	
Material	: Butyl rubber - IIR
Break through time	: >= 8 h
Glove thickness	: 0.5 mm
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	: Complete suit protecting against chemicals Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Respirator with filter for organic vapour

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Filter type : Combined acidic gas/vapour and organic vapour type (AE)

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Physical state : liquid

Colour : green-brown

Odour : No information available.

Odour Threshold : No data available

pH : 2.6
Concentration: 1 %

< 1
Concentration: 100 %

Melting point/ range : No data available

Boiling point/boiling range : > 100 °C

Flash point : > 91 °C
Method: Regulation (EC) No. 440/2008, Annex, A.9, closed cup

Flammability : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.07
Method: OECD Test Guideline 109

Density : 1.07 g/cm³ (20 °C)
Method: OECD Test Guideline 109

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Solubility(ies)	
Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 17.9 mPa,s (20 °C) Method: OECD Test Guideline 114
	: 9.58 mPa,s (40 °C) Method: OECD Test Guideline 114
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

Surface tension	: 33.12 mN/m, 100 %, 20 °C, Regulation (EC) No. 440/2008, Annex, A.5
	: 34.22 mN/m, 1 %, 20 °C, Regulation (EC) No. 440/2008, Annex, A.5
Molecular weight	: No data available
Particle size	: Not applicable
Self-ignition	: 525 °C Method: Regulation (EC) No. 440/2008, Annex, A.15

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

The product is chemically stable.

10.3 Possibility of hazardous reactions

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

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

10.4 Conditions to avoid

Conditions to avoid : contact with incompatible materials

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Strong bases

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified due to lack of data.

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
Test atmosphere: vapour
Method: Calculation method

Components:

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

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

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Remarks: Extrapolation according to Regulation (EC) No. 440/2008

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

2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1,200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 (Guinea pig, male and female): 1,200 mg/kg

Acute inhalation toxicity : LC50: ca. 3 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Guinea pig, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: Yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Causes severe burns.

Components:

chlorocresol:

Result : Corrosive after 1 to 4 hours of exposure

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.

acetic acid:

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

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Remarks : Aqueous solution

2-butoxyethanol:

Species	: Rabbit
Exposure time	: 4 h
Method	: Regulation (EC) No. 440/2008, Annex, B.4
Result	: Irritating to skin.
GLP	: No

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

chlorocresol:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Risk of serious damage to eyes.

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

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Risk of serious damage to eyes.

acetic acid:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

2-butoxyethanol:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irritating to eyes.
GLP	: Yes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

chlorocresol:

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Probability or evidence of low to moderate skin sensitisation rate in humans

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

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.

acetic acid:

Assessment	:	Did not cause sensitisation on laboratory animals.
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2-butoxyethanol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	Yes

Germ cell mutagenicity

Not classified due to lack of data.

Components:

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 (male and female) Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative

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
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female)

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Method: OECD Test Guideline 474
Result: negative
GLP: Yes

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

2-butoxyethanol:

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

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Test Type: Micronucleus test
Species: Rat (male)
Cell type: Bone marrow

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

chlorocresol:

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

2-butoxyethanol:

Species	: Rat, male and female
Application Route	: inhalation (vapour)
Exposure time	: 2 Years
Dose	: 31 - 62,5 - 125 parts per million
Frequency of Treatment	: 5 days/week
NOAEC	: > 125 ppm
Method	: OECD Test Guideline 451
Result	: negative

Species	: Mouse, male and female
Application Route	: inhalation (vapour)
Exposure time	: 2 Years
Dose	: 62,5 - 125 - 250 parts per million
Frequency of Treatment	: 5 days/week
NOAEC	: 125 ppm
Method	: OECD Test Guideline 451
Result	: equivocal

Reproductive toxicity

Not classified due to lack of data.

Components:

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

acetic acid:

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

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

2-butoxyethanol:

Effects on fertility : Test Type: Two-generation study
Species: Mouse, male and female
Application Route: Oral
Dose: 720 - 1340 - 2050 milligram per kilogram
General Toxicity - Parent: NOAEL: 720 mg/kg bw/day
Fertility: NOAEL: 720 mg/kg bw/day
Early Embryonic Development: NOAEL: 720 mg/kg bw/day
GLP: Yes

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Dose: 30 - 100 - 200 - 300 milligram per kilogram
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day
Developmental Toxicity: LOAEL: 200 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses

Test Type: Pre-natal
Species: Rabbit, female
Application Route: inhalation (vapour)
Dose: 25 - 50 - 100 - 200 parts per million
Frequency of Treatment: 6 hours/day
General Toxicity Maternal: NOAEC: 100 ppm
Developmental Toxicity: NOAEC: 100 ppm
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses

Test Type: Pre-natal
Species: Rat, female
Application Route: inhalation (vapour)
Dose: 25 - 50 - 100 - 200 parts per million
Frequency of Treatment: 6 hours/day
General Toxicity Maternal: NOAEC: 50 ppm
Developmental Toxicity: NOAEC: 50 ppm
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses

STOT - single exposure

May cause respiratory irritation.

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Components:

chlorocresol:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

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

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

2-butoxyethanol:

Species : Rat, male and female
LOAEL : 750 ppm
Application Route : Oral
Exposure time : 90 d
Number of exposures : Continuous
Dose : 750-1500-3000-4500-6000 parts per million
Method : OECD Test Guideline 408
GLP : Yes
Remarks : Subchronic toxicity

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Species	: Rat, female
NOAEC	: < 31 ppm
Application Route	: Inhalation
Test atmosphere	: vapour
Exposure time	: 90 d
Number of exposures	: 5 days/week
Dose	: 31 - 62,5 - 125 parts per million
Method	: OECD Test Guideline 413
GLP	: Yes
Remarks	: Subchronic toxicity

Species	: Rabbit, male and female
NOAEL	: >= 150 mg/kg
Application Route	: Dermal
Exposure time	: 90 d
Number of exposures	: 5 days/week
Dose	: 10 - 50 - 150 mg/kg bw/day
Method	: OECD Test Guideline 411
GLP	: Yes
Remarks	: Subchronic toxicity

Aspiration hazard

Not classified due to lack of data.

Further information

Product:

Remarks	: No data available
---------	---------------------

SECTION 12: Ecological information

12.1 Toxicity

Components:

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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 2.29 mg/l Exposure time: 48 h Method: OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 30.62 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Desmodesmus subspicatus (green algae)): 9.8 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 41.4 mg/l
End point: Respiration rates.
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
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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

Toxicity to algae/aquatic plants : 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 toxicity) : NOEC: 1 mg/l
Exposure time: 28 d
Species: Lepomis macrochirus (Bluegill sunfish)
Method: OECD Test Guideline 204
Remarks: Fresh water

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

acetic acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 300.82 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Test Type: semi-static test
Analytical monitoring: No
Method: OECD Test Guideline 203
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 300.82 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): > 300.82 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No
Method: ISO 10253
GLP: Yes
Remarks: salt water

Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,150 mg/l
Exposure time: 16 h
Remarks: Fresh water

2-butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 203
GLP: No
Remarks: Fresh water
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,550 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: No
Remarks: Fresh water
nominal concentration

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 1,840 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: No

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Remarks: Fresh water
nominal concentration

EC10 (Raphidocelis subcapitata (freshwater green alga)): 679
mg/l

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: No
Remarks: Fresh water
nominal concentration

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l
Exposure time: 21 d
Species: Danio rerio (zebra fish)
Test Type: semi-static test
Analytical monitoring: No
Method: OECD Test Guideline 204
GLP: No
Remarks: Fresh water
nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 134 mg/l
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: Yes
Method: OECD Test Guideline 211
GLP: No
Remarks: Fresh water
nominal concentration

12.2 Persistence and degradability

Components:

chlorocresol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

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

acetic acid:

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Biodegradability : Result: Readily biodegradable.

2-butoxyethanol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90.4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: No

12.3 Bioaccumulative potential

Components:

chlorocresol:

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

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

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

acetic acid:

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

2-butoxyethanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0.81 (25 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

No data available

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:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

according to UK REACH Article 57(f) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimised wherever possible.
Where possible recycling is preferred to disposal or incineration.
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls
Dispose of as hazardous waste in compliance with local and national regulations.
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.
Dispose of wastes in an approved waste disposal facility.

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

SECTION 14: Transport information

14.1 UN number

ADN	: UN 3265
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. (ALKYLBENZENE SULFONIC ACID, 4-CHLORO-3-METHYLPHENOL)
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SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

ADR	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ALKYLBENZENE SULFONIC ACID, 4-CHLORO-3-METHYLPHENOL)
RID	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ALKYLBENZENE SULFONIC ACID, 4-CHLORO-3-METHYLPHENOL)
IMDG	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ALKYLBENZENE SULFONIC ACID, 4-CHLORO-3-METHYLPHENOL)
IATA	:	Corrosive liquid, acidic, organic, n.o.s. (ALKYLBENZENE SULFONIC ACID, 4-CHLORO-3-METHYLPHENOL)

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
	:



Tunnel restriction code	: (E)
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RID	
Packing group	: III
Classification Code	: C3
Hazard Identification Number	: 80
Labels	: 8

SAFETY DATA SHEET

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

BI-OO-CYST

Version
4.0

Revision Date:
28.07.2026

SDS Number:
203000023607

Date of last issue: 12.05.2025
Country / Language: GB / 6N(EN)

IMDG

Packing group
Labels

: III
: 8
:



EmS Code

: F-A, S-B

IATA (Cargo)

Packing instruction (cargo
aircraft)
Packing group
Labels

: 856 : 60.00 L
: III
: 8
:



IATA (Passenger)

Packing instruction (passen-
ger aircraft)
Packing group
Labels

: 852 : 5.00 L
: III
: 8
:



14.5 Environmental hazards

ADN

Environmentally hazardous : yes



ADR

Environmentally hazardous : yes



RID

Environmentally hazardous : yes

SAFETY DATA SHEET

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

BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)



IMDG

Marine pollutant : yes



IATA (Passenger)

Environmentally hazardous : yes



IATA (Cargo)

Environmentally hazardous : yes



14.6 Special precautions for user

Hazard and Handling Notes : Slightly corrosive.
Environmentally hazardous substance.
Keep away from acids and oxidizing agents.
Keep away from foodstuffs, acids and alkalis.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high	: Not applicable

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : 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. : Neither banned nor restricted

Council Regulation (EC) No 273/2004 on drug precursors : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
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 SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
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
GB EH40 BAT	: UK. Biological monitoring guidance values
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
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)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation 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; REACH - Regulation (EC) No 1907/2006 of the European

SAFETY DATA SHEET

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



BI-OO-CYST

Version	Revision Date:	SDS Number:	Date of last issue: 12.05.2025
4.0	28.07.2026	203000023607	Country / Language: GB / 6N(EN)

Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

Classification of the mixture:

Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 3	H412

Classification procedure:

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

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.