

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 1 of 20

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

1.1. Product identifier

Opticool 572(E)

UFI: TGWM-XD15-1P5K-31SU

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

Use of the substance/mixture

Metal working fluids

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Chesterton International GmbH

Street: Am Lenzenfleck 23

Place: D-85737 Ismaning GERMANY

Telephone: +49 89 99 65 46 - 0

Telefax: +49 89 99 65 46 - 50

e-mail: eu-sds@chesterton.com

e-mail (Contact person): eu-sds@chesterton.com

Internet: www.chesterton.com

Responsible Department: eu-sds@chesterton.com

1.4. Emergency telephone

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Sens. 1; H317

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one

2-methylisothiazol-3(2H)-one

Signal word: Warning

Pictograms:



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 2 of 20

Hazard statements

- H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	Classification (Regulation (EC) No 1272/2008)	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	>= 1 - < 5 %
	203-961-6	603-096-00-8
		01-2119475104-44
	Eye Irrit. 2; H319	
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated	1 - < 2,5 %
	500-236-9	
		01-2119489407-26
	Skin Irrit. 2, Aquatic Chronic 2; H315 H411	
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	0,1 - < 0,25 %
	259-627-5	616-212-00-7
		01-2120762115-60
	Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H331 H302 H318 H317 H372 H400 H410	
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	< 0.1 %
	220-120-9	613-088-00-6
		01-2120761540-60
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H317 H400 H411	
2682-20-4	2-methylisothiazol-3(2H)-one	< 0.1 %
	220-239-6	613-326-00-9
		01-2120764690-50
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071	

Full text of H and EUH statements: see section 16.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 3 of 20

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	>= 1 - < 5 % %
		dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg	
68920-66-1	500-236-9	Alcohols, C16-18 and C18-unsatd., ethoxylated	1 - < 2,5 % %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
55406-53-6	259-627-5	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	0,1 - < 0,25 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = > 6,89 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1795 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100 Aquatic Acute 1; H400: M=1	
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	< 0.1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove victim out of the danger area. If unconscious but breathing normally, place in recovery position and seek medical advice. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 4 of 20

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- Dry extinguishing powder.
- Carbon dioxide (CO₂).
- alcohol resistant foam.
- Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

- Nitrogen oxides (NO_x)
- Carbon dioxide (CO₂)
- Carbon monoxide

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

In case of fire: Wear self-contained breathing apparatus.

Special protective equipment for firefighters: Protective clothing.

Additional information

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. Remove persons to safety. Avoid contact with skin, eyes and clothes.

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Remove all sources of ignition.

6.2. Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 5 of 20

For containment

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Personal protection equipment: see section 8 Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Special danger of slipping by leaking/spilling product. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use. Apply skin care products after work.

Further information on handling

Wash hands before breaks and after work. Only wear fitting, comfortable and clean protective clothing. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product. Protect containers against damage.

Hints on joint storage

Do not store together with: Food and feedingstuffs

Keep away from: Oxidising agent

Further information on storage conditions

Recommended storage temperature: 5 - 40°C

Protect against: Heat, UV-radiation/sunlight, Frost

storage stability: ~ 12 Mon

7.3. Specific end use(s)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 6 of 20

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 7 of 20

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	systemic	67,5 mg/m ³
Worker DNEL, long-term		inhalation	local	67,5 mg/m ³
Worker DNEL, acute		inhalation	local	101,2 mg/m ³
Worker DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	40,5 mg/m ³
Consumer DNEL, long-term		inhalation	local	40,5 mg/m ³
Consumer DNEL, acute		inhalation	local	60,7 mg/m ³
Consumer DNEL, long-term		dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated			
Worker DNEL, long-term		inhalation	systemic	294 mg/m ³
Worker DNEL, long-term		dermal	systemic	2080 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	87 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1250 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate			
Worker DNEL, long-term		inhalation	systemic	0,023 mg/m ³
Worker DNEL, acute		inhalation	systemic	0,07 mg/m ³
Worker DNEL, long-term		inhalation	local	1,16 mg/m ³
Worker DNEL, acute		inhalation	local	1,16 mg/m ³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one			
Worker DNEL, long-term		inhalation	systemic	6,81 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,2 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,345 mg/kg bw/day
2682-20-4	2-methylisothiazol-3(2H)-one			

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 8 of 20

Worker DNEL, long-term	inhalation	local	0,021 mg/m ³
Worker DNEL, acute	inhalation	local	0,043 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,021 mg/m ³
Consumer DNEL, acute	inhalation	local	0,043 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,027 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,053 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 9 of 20

PNEC values

CAS No	Substance	Value
Environmental compartment		
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	
Freshwater		1,1 mg/l
Freshwater (intermittent releases)		11 mg/l
Marine water		0,11 mg/l
Freshwater sediment		4,4 mg/kg
Marine sediment		0,44 mg/kg
Secondary poisoning		56 mg/kg
Micro-organisms in sewage treatment plants (STP)		200 mg/l
Soil		0,32 mg/kg
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated	
Freshwater		0,007 mg/l
Freshwater (intermittent releases)		0,1 mg/l
Marine water		0,001 mg/l
Freshwater sediment		22,79 mg/kg
Marine sediment		2,28 mg/kg
Micro-organisms in sewage treatment plants (STP)		10000 mg/l
Soil		1 mg/kg
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,001 mg/l
Marine water		0 mg/l
Freshwater sediment		0,017 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,44 mg/l
Soil		0,005 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	
Freshwater		0,00403 mg/l
Freshwater (intermittent releases)		0,0011 mg/l
Marine water		0,000403 mg/l
Freshwater sediment		0,0499 mg/kg
Marine sediment		0,00499 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,03 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 10 of 20

Soil	3 mg/kg
2682-20-4	2-methylisothiazol-3(2H)-one
Freshwater	0,00339 mg/l
Freshwater (intermittent releases)	0,00339 mg/l
Marine water	0,00339 mg/l
Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
Soil	0,047 mg/kg

8.2. Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection:

- Eye glasses with side protection
- goggles

Hand protection

Tested protective gloves must be worn: EN ISO 374

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Wearing time with permanent contact: Thickness of the glove material: $\geq 0,4$ mm, Breakthrough time: >480 min

Wearing time with occasional contact (splashes): Thickness of the glove material: $\geq 0,1$ mm, Breakthrough time: > 30 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Wear suitable protective clothing.

Respiratory protection

No special measures are necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: insufficient ventilation, aerosol or mist formation

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 11 of 20

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	yellow	
Odour:	characteristic	
		Test method
Melting point/freezing point:	No data available	
Boiling point or initial boiling point and boiling range:	> 100 °C	
Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	6,5 vol. %	
Flash point:	> 100 °C	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
pH-Value (at 20 °C):	9,2	DIN 51369
Viscosity / kinematic: (at 20 °C)	180 mm ² /s	
Water solubility: (at 20 °C)	miscible	
Solubility in other solvents	No information available.	
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	1,037 g/cm ³	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not explosive according to EU A.14

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No information available.

Other safety characteristics

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

No data available

Further Information

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 12 of 20

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (inhalation vapour) 1250,00 mg/l; ATE (inhalation dust/mist) 208,333 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 13 of 20

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 2410 mg/kg	Mouse	Study report (1981)	OECD Guideline 401
	dermal	LD50 2764 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate				
	oral	LD50 1795 mg/kg	Rat	Study report (1984)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1991)	EPA OPP 81-2
	inhalation vapour	ATE 3 mg/l			
	inhalation (4 h) dust/mist	LC50 > 6,89 mg/l	Rat	Study report (1985)	OECD Guideline 403
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 670 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1994)	OECD Guideline 402
2682-20-4	2-methylisothiazol-3(2H)-one				
	oral	LD50 120 mg/kg	Rat	Study report (2002)	EPA OPPTS 870.1100
	dermal	LD50 242 mg/kg	Rat	Study report (1999)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate; 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one; 2-methylisothiazol-3(2H)-one)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 14 of 20

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

No data available

SECTION 12: Ecological information

12.1. Toxicity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 15 of 20

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1300 mg/l	96 h	Lepomis macrochirus	J Haz Mat, 1, p303-18 (1977)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	96 h	Desmodesmus subspicatus	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1992)	EU Method C.2
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated					
	Acute fish toxicity	LC50 108 mg/l	96 h	Danio rerio	Study report (2008)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (1997)	other: EU-Guideline 92/69/EWG
	Acute crustacea toxicity	EL50 51 mg/l	48 h	Daphnia magna	Study report (2000)	OECD Guideline 202
	Fish toxicity	NOEC 0,16 mg/l	10 d	Pimephales promelas	Study report (1995)	The effect of the test substance on surv
	Crustacea toxicity	NOEC 0,77 mg/l	21 d	Daphnia magna	Publication (1999)	other: USEPA-TSCA
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate					
	Acute algae toxicity	ErC50 0,022 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC 0,0084 mg/l	35 d	Pimephales promelas	REACH Registration Dossier	EPA OPP 72-4
	Crustacea toxicity	NOEC 0,0499 mg/l	21 d	Daphnia magna	REACH Registration Dossier	EPA OPP 72-4
	Acute bacteria toxicity	(EC50 44 mg/l)	3 h	activated sludge, domestic	REACH Registration Dossier	EU Method C.11
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one					
	Acute fish toxicity	LC50 ca. 16,7 mg/l	96 h	Cyprinodon variegatus	REACH Registration Dossier	other:
	Acute algae toxicity	ErC50 0,15 mg/l	72 h	Raphidocelis subcapitata	Study report (1994)	OECD Guideline 201
	Acute crustacea toxicity	EC50 2,94 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 16 of 20

	Algae toxicity	NOEC mg/l	0,0403	72 d			
	Acute bacteria toxicity	(EC50 mg/l)	13 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
2682-20-4	2-methylisothiazol-3(2H)-one						
	Acute fish toxicity	LC50 mg/l	4,77	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OPP 72-1
	Acute algae toxicity	ErC50 mg/l	0,069	96 h	Skeletonema costatum	Study report (2004)	EPA OPPTS 850.5400
	Acute crustacea toxicity	EC50 mg/l	0,934	48 h	Daphnia magna	REACH Registration Dossier	EPA OPP 72-2
	Fish toxicity	NOEC mg/l	4,93	98 d	Oncorhynchus mykiss	REACH Registration Dossier	EPA OPPTS 850.1400
	Crustacea toxicity	NOEC mg/l	0,044	21 d	Daphnia magna	REACH Registration Dossier	EPA OPPTS 850.1300
	Acute bacteria toxicity	(EC50 mg/l)	41 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209

12.2. Persistence and degradability

Moderately/partially biodegradable.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether		85%	28	
	Readily biodegradable (according to OECD criteria).				
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	OECD 303A Activated sludge S 978		>70%		
	OECD 302B Activated sludge S 3509		90%		

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 17 of 20

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	1
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated	ca. 7,19
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	2,81
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0,63
2682-20-4	2-methylisothiazol-3(2H)-one	-0,486

BCF

CAS No	Chemical name	BCF	Species	Source
68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated	387,5	Pimephales promelas	Publication (2000)
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	ca. 6,62	Lepomis macrochirus	REACH Registration D
2682-20-4	2-methylisothiazol-3(2H)-one	5,75	Lepomis macrochirus	REACH Registration D

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 18 of 20

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 55

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one

2-methylisothiazol-3(2H)-one

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 19 of 20

Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,10,12,13,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
 (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 EC50: Effectice concentration, 50 percent
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 22.02.2023

Page 20 of 20

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)