

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE 

Page 1/10

Corfit CT Protect B

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

1.1. Product identifier

Trade name/designation:

Corfit CT Protect B

UFI:

81N0-Y2NU-500V-PRXA

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

Use of the substance/mixture:

Corrosion inhibitor

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sanosil

Eichtalstrasse 49
8634 Hombrechtikon
Switzerland

Telephone: +41 55 254 00 54

Telefax: +41 55 254 00 59

E-mail: kundeninfo@sanosil.ch

Website: www.sanosil.ch

1.4. Emergency telephone number

United States of America: Poison control center - national hotline number 1-800-222-1222
Great Britain: National phone number 111
Belgium: Centre antipoisons +32 070 245 245 / Bulgaria: +359 2 9154 233 / Croatia: +3851 2348 342 / Cyprus: +357 1401 / Czech Republic: +420 224 919 293, +420 224 915 402 / Denmark: +45 82 12 12 12 / Estonia: +372 16662, +372 7943 794 / Finland: +358 09 471 77 / France: numéro ORFILA (INRS) : +33 (0)1 45 42 59 59 / Greece: +30 21077 93777 / Hungary: +36 80 201 199 (24 hours) / Ireland: +353 (1) 809 2166 / Italy: +39 06 4997800 / Lithuania: +370 (85) 2362052 / Luxembourg: +352 8002 5500 / The Netherlands: +31 (0) 30 274 8888 / Norway: +47 22 59 13 00 / Portugal: +351 800 250 250 / Romania: +402 213 183 606 / Slovakia: +421 2 5477 4166 / Spain: National Emergency Telephone Number: +34 91 562 04 20 / Sweden: +46 112 (emergency 24 hours), +46 08-331231 (mon-fri 9.00-17.00).
European Union: Call 112 if no specific phone number available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 2/10

Corfit CT Protect B

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard statements for health hazards

H319	Causes serious eye irritation.
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Supplemental hazard information: none

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
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Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P337 + P313	If eye irritation persists: Get medical advice/attention.
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2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 37971-36-1 EC No.: 253-733-5 REACH No.: 01-2119436643-39-XXXX	2-phosphonobutane-1,2,4-tricarboxylic acid Eye Irrit. 2 (H319), Met. Corr. 1 (H290) Warning	11 - ≤ 19 weight-%
CAS No.: 107-21-1 EC No.: 203-473-3 Index No.: 603-027-00-1 REACH No.: 01-2119456816-28-XXXX	ethane-1,2-diol Acute Tox. 4 (H302) Warning	3 - ≤ 7 weight-%
CAS No.: 29385-43-1 EC No.: 249-596-6 REACH No.: 01-2119979081-35-XXXX	methyl-1H-benzotriazole Acute Tox. 4 (H302), Aquatic Chronic 2 (H411), Repr. 2 (H361, H361d) Warning	0 - ≤ 2 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE 

Page 3/10

Corfit CT Protect B

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing powder, Water spray jet, alcohol resistant foam, Carbon dioxide

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide, Carbon dioxide, Phosphorus oxides

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Dispose of the residus of the product as hazardous waste (see section 13).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 4/10

Corfit CT Protect B

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

The product itself does not burn.

Environmental precautions:

Don't allow to enter drains/surface water/groundwater.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Recommended storage temperature: 15 - 25 °C

Hints on storage assembly:

Do not store together with: alkalines

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ES	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (puede ser absorbido a través dérmica)
IOELV (EU)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin)
VRI (FR)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (peut être absorbé par la peau)
WEL (GB)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (vapour, may be absorbed through the skin)
WEL (GB)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 10 mg/m ³ ⑤ (may be absorbed through the skin)
ACGIH (US)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	② 10 mg/m ³ ⑤ (inhalable fraction Aerosol)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 5/10

Corfit CT Protect B

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ACGIH (US)	ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	① 25 ppm ② 50 ppm ⑤ (vapor)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

Use protective gloves in accordance to EN 374. The following materials are suitable: NBR, butyle rubber, PVC, thickness at least 0.4 mm. Breakthrough time: min. 6 hours

Respiratory protection:

Not necessary in case of normal use.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: light brown

Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	1.2	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	1.09 g/cm ³	20 °C	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 6/10

Corfit CT Protect B

Parameter	Value	at °C	① Method ② Remark
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not determined</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exothermic reaction with: Alkali (lye)

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

Alkalis, Mixtures of sodium hypochlorite

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

2-phosphonobutane-1,2,4-tricarboxylic acid CAS No.: 37971-36-1 EC No.: 253-733-5
LD ₅₀ oral: >3,250 mg/kg (Rat)
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
LD ₅₀ oral: 4,700 g/m ³ (Ratte)
LD ₅₀ dermal: 10,600 g/m ³ (Kaninchen)
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6
LD ₅₀ oral: 720 mg/kg (Rat)
LD ₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 7/10

Corfit CT Protect B

Carcinogenicity:

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

Reproductive toxicity:

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

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2-phosphonobutane-1,2,4-tricarboxylic acid CAS No.: 37971-36-1 EC No.: 253-733-5
LC ₅₀ : >1,042 mg/L 3 d (fish, Fish)
EC ₅₀ : >1,071 mg/L (crustaceans, crustaceans)
EC ₅₀ : 1,081 mg/L 3 d (Algae/water plant, Alga)
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
LC ₅₀ : 54,700 mg/L 4 d (Fisch)
LC ₅₀ : 41,000 mg/L 2 d (Krustentiere)
LC ₅₀ : 72 mg/L 4 d (Fisch)
LC ₅₀ : 4,700 mg/L 2 d (Krustentiere)
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6
LC ₅₀ : 180 mg/L 4 d (fish, Fish) OECD 203
EC ₅₀ : 8.58 mg/L 2 d (crustaceans, crustaceans)
EC ₅₀ : 75 mg/L 3 d (Algae/water plant, Alga)

12.2. Persistence and degradability

2-phosphonobutane-1,2,4-tricarboxylic acid CAS No.: 37971-36-1 EC No.: 253-733-5
Biodegradation: Yes, rapidly
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
Biodegradation: Yes, rapidly
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6
Biodegradation: Yes, slowly

12.3. Bioaccumulative potential

ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
Log K _{OW} : -1.36
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6
Bioconcentration factor (BCF): 2.4

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

2-phosphonobutane-1,2,4-tricarboxylic acid CAS No.: 37971-36-1 EC No.: 253-733-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 8/10

Corfit CT Protect B

ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3

Results of PBT and vPvB assessment: PBT-substance.

methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product may not be eliminated as municipal solid waste nor allowed to end up in the drainage system. These packs can be delivered packaging-specific to the existing collection points for hazardous waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 08 *	discarded organic chemicals consisting of or containing hazardous substances
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*: Evidence for disposal must be provided.

Remark:

Wastecode according to regulation EU 2014/955

Waste code packaging

15 01 02	Plastic packaging
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Waste treatment options

Appropriate disposal / Package:

Residues of the product and packaging have to be collected as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE

Page 9/10

Corfit CT Protect B

SECTION 15: Regulatory information

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

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

This is the first version due to classification according to Regulations (EC) 1272/2008 and (EU) No 878/2020.

16.2. Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European agreement concerning the international carriage of dangerous goods by road

CAS Chemical Abstract Service

CLP Classification, labelling and Packaging

EC₅₀ Effective Concentration 50%

EN European norm

IATA International Air Transport Association

IMDG-Code International Maritime Dangerous Goods Code

LC₅₀ Lethal Concentration 50%

LD₅₀ Lethal Dose 50%

OECD Organization for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals

RID Regulations concerning the international carriage of dangerous goods by rail

SVHC Substance of Very High Concern

UN United Nations

VOC Volatile organic compounds

vPvB very persistent, very bioaccumulative

16.3. Key literature references and sources for data

Security safety data sheet of the ingredients. Inventory of substances of the European Chemical Agency (ECHA).

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

Persons charged with the handling and cleaning of the product must be trained prior to start their work and in regular intervals. They must be informed about the risks using the product and the measures to

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 26 Sep 2022

Print date: 26 Sep 2022

Version: 1



SANOSIL
DISINFECTANTS FOR LIFE 

Page 10/10

Corfit CT Protect B

take for efficient prevention. This concerns particularly working security, first aid, health and environment protection.

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new madeup material.