

# Safety Data Sheet

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



Trade name : GreeNox-T  
(Alias Surfox-T)  
Revision date : 12.08.2024  
Print date : 14.08.2024

Version (Revision) : 4.4.1 (4.4.0)

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

### 1.1 Product identifier

GreeNox-T  
(Alias Surfox-T)  
Unique Formula Identifier : G140-Y06V-R00J-W5GS

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

#### Relevant identified uses

PC 0.72 - Electrolyte  
PC 35 - Washing and cleaning products

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

#### Supplier

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours  
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.  
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

### 2.2 Label elements

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

##### Hazard pictograms



Corrosion (GHS05)

##### Signal word

Danger

##### Hazard components for labelling

PHOSPHORIC ACID 55 % ; CAS No. : 7664-38-2

##### Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

##### Precautionary statements

P234 Keep only in original packaging.  
P310 Immediately call a POISON CENTER/doctor/....  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P390 Absorb spillage to prevent material damage.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

PHOSPHORIC ACID ; REACH No. : 01-2119485924-24-XXXX ; EC No. : 231-633-2; CAS No. : 7664-38-2

Weight fraction :  $\geq 50 - < 100$  %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318  
Substance with a common (EC) occupational exposure limit value.

Specific Conc. Limits : Eye Dam. 1 ; H318: C  $\geq 25$  % • Skin Corr. 1B ; H314: C  $\geq 25$  % • Skin Corr. 1C ;  
H314: C  $\geq 25$  % • Eye Irrit. 2 ; H319: C  $\geq 10$  % • Skin Irrit. 2 ; H315: C  $\geq 10$  %

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Causes severe skin burns and eye damage.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

#### Unsuitable extinguishing media

Full water jet

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

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## Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>) , Phosphorus oxides , Sulphur oxides

### 5.3 Advice for firefighters

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

### 5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Fire fighting water forms corrosive acid solutions. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product. Use personal protection equipment.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

### 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

Keep container tightly closed. Avoid: generation/formation of aerosols

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

Provide for retaining containers, e.g. floor pan without outflow. Keep/Store only in original container. Protect against : Frost .

#### Hints on joint storage

Storage class (TRGS 510) : 8B

Do not store together with  
alkali

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

PHOSPHORIC ACID ; CAS No. : 7664-38-2

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

Peak limitation : 2(l)

Remark : Y

Version : 23.06.2022

Limit value type (country of origin) : STEL ( EC )

Limit value : 2 mg/m<sup>3</sup>

Remark : 15 min average

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Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 1 mg/m<sup>3</sup>  
Version : 20.06.2019

## DNEL-/PNEC-values

### DNEL/DMEL

PHOSPHORIC ACID ; CAS No. : 7664-38-2

Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 0,36 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 4,57 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0,1 mg/kg bw/day  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 10,7 mg/m<sup>3</sup>

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

#### Skin protection

##### Hand protection



**Suitable gloves type** : EN 374.  
**Suitable material** : NBR (Nitrile rubber)  
**Breakthrough time** : 480 min.  
**Thickness of the glove material** : 0.4 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to

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check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

### Suitable respiratory protection apparatus

Combination filtering device  
Type : E P1

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

## General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

## 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid

Colour : colourless

#### Odour

characteristic

#### Safety characteristics

|                                           |                    |         |                              |                     |
|-------------------------------------------|--------------------|---------|------------------------------|---------------------|
| Solidifying point :                       | ( 1013 hPa )       | approx. | 0 °C                         |                     |
| Initial boiling point and boiling range : | ( 1013 hPa )       | approx. | 115 °C                       |                     |
| Flash point :                             |                    |         | not relevant                 | DIN EN ISO 13736    |
| Auto-ignition temperature :               |                    |         | none                         |                     |
| Flammability :                            |                    |         | non-flammable                |                     |
| Lower explosion limit :                   |                    |         | not relevant                 |                     |
| Upper explosion limit :                   |                    |         | not relevant                 |                     |
| Vapour pressure :                         | ( 50 °C )          |         | not determined               |                     |
| Density :                                 | ( 20 °C )          | approx. | 1,35 - 1,4 g/cm <sup>3</sup> |                     |
| Water solubility :                        | ( 20 °C )          |         | completely miscible          |                     |
| pH :                                      | ( 20 °C / 50 g/l ) | approx. | 1,5                          | in aqueous solution |
| Cinematic viscosity :                     | ( 20 °C )          | <       | 30 mm <sup>2</sup> /s        |                     |
| Relative vapour density :                 | ( 20 °C )          |         | not determined               |                     |
| Maximum VOC content (EC) :                |                    |         | 0 Weight-%                   |                     |
| Maximum VOC content (Switzerland) :       |                    |         | 0 Weight-%                   |                     |
| Taxable VOC content (Switzerland) :       |                    |         | 0 Weight-%                   |                     |
| Corrosive to metals :                     |                    |         | May be corrosive to metals.  |                     |

### 9.2 Other information

No further relevant information available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. alumina, lead, zinc) - danger of explosion.

### 10.4 Conditions to avoid

Violent reaction with: Alkali (lye).

### 10.5 Incompatible materials

Corrosive to metals

### 10.6 Hazardous decomposition products

Hydrogen

Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

|                  |                                                |
|------------------|------------------------------------------------|
| Parameter :      | ATEmix                                         |
| Exposure route : | Oral                                           |
| Effective dose : | > 2000 mg/kg                                   |
| Parameter :      | LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Exposure route : | Oral                                           |
| Species :        | Rat                                            |
| Effective dose : | 1530 mg/kg                                     |

##### Acute dermal toxicity

|                  |                                                |
|------------------|------------------------------------------------|
| Parameter :      | ATEmix                                         |
| Exposure route : | Dermal                                         |
| Effective dose : | > 2000 mg/kg                                   |
| Parameter :      | LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Exposure route : | Dermal                                         |
| Species :        | Rabbit                                         |
| Effective dose : | 2740 mg/kg                                     |

#### Corrosion

##### Skin corrosion/irritation

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Parameter : | Skin corrosion/irritation ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Species :   | Rabbit                                                              |
| Result :    | Causes severe burns                                                 |

##### Assessment/classification

Causes severe burns.

##### Serious eye damage/eye irritation

|             |                                                                             |
|-------------|-----------------------------------------------------------------------------|
| Parameter : | Serious eye damage/eye irritation ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Species :   | Rabbit                                                                      |
| Result :    | Causes serious eye damage                                                   |

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## Assessment/classification

Causes serious eye damage.

## Respiratory or skin sensitisation

### Skin sensitisation

No further relevant information available.

### Sensitisation to the respiratory tract

No further relevant information available.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No further relevant information available.

### Germ cell mutagenicity

No further relevant information available.

### Reproductive toxicity

No further relevant information available.

## STOT-single exposure

No further relevant information available.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

No further relevant information available.

## 11.2 Information on other hazards

### Endocrine disrupting properties

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

### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Other adverse effects

Has degreasing effect on the skin.

### Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) toxicity to crustacea

|                        |                                                |
|------------------------|------------------------------------------------|
| Parameter :            | EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Species :              | Daphnia magna (Big water flea)                 |
| Evaluation parameter : | Acute (short-term) toxicity to crustacea       |
| Effective dose :       | > 100 mg/l                                     |
| Exposure time :        | 48 h                                           |
| Method :               | OECD 202                                       |
| Parameter :            | NOEC ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
| Species :              | Daphnia magna (Big water flea)                 |
| Evaluation parameter : | Acute (short-term) toxicity to crustacea       |
| Effective dose :       | 56 mg/l                                        |
| Exposure time :        | 48 h                                           |
| Method :               | OECD 202                                       |

##### Acute (short-term) toxicity to algae and cyanobacteria

|             |                                                |
|-------------|------------------------------------------------|
| Parameter : | EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) |
|-------------|------------------------------------------------|

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Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h

#### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Chronic (long-term) toxicity to aquatic algae and cyanobacteria  
Effective dose : 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Toxicity to microorganisms

Parameter : EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209

#### 12.2 Persistence and degradability

The organic part of the product is biodegradable.

#### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

#### 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.

#### 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.

#### 12.7 Other adverse effects

No information available.

#### 12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Directive 2008/98/EC (Waste Framework Directive)

###### Before intended use

###### Waste codes/waste designations according to EWC/AVV

07 06 01\* (Aqueous washing liquids and mother liquors)  
20 01 29\* (Detergents containing hazardous substances)  
06 01 04\* (Phosphoric and phosphorous acid)  
11 01 05\* (Pickling acids)

###### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning (Water (with cleaning agent)). Handle contaminated packages in the same way as the substance itself.

#### 13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### SECTION 14: Transport information

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**14.1 UN number**

UN 1805

**14.2 UN proper shipping name**

Land transport (ADR/RID)  
PHOSPHORIC ACID, SOLUTION

Sea transport (IMDG)  
PHOSPHORIC ACID, SOLUTION

Air transport (ICAO-TI / IATA-DGR)  
PHOSPHORIC ACID, SOLUTION

**14.3 Transport hazard class(es)**

Land transport (ADR/RID)

Class(es) : 8  
Classification code : C9  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



8

Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Special Provisions : LQ 5 I · E 1 · IMDG-Code segregation group 1 - Acids  
Hazard label(s) :



8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8  
Special Provisions : E 1  
Hazard label(s) :



8

**14.4 Packing group**

III

**14.5 Environmental hazards**

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

**14.6 Special precautions for user**

None

**14.7 Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**SECTION 15: Regulatory information**

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

### EU legislation

#### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 75

### National regulations

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

#### Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

14. Transport information

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

|-> COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

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

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

Evaluation

Met. Corr. 1 : literature value

Skin Corr. 1B : Calculation method.

Eye Dam. 1 : Calculation method.

**16.5 Relevant H- and EUH-phrases (Number and full text)**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**16.6 Training advice**

None

**16.7 Additional information**

None

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 made-up material.