# Safety Data Sheet
## according to Regulation (EC) No. 1907/2006 (REACH)

| | | | |
|---|---|---|---|
| **Trade name :** | Corrosion Protection 100 | | |
| **Revision date :** | 05.01.2026 | **Version (Revision) :** | 6.0.4 (6.0.3) |
| **Print date :** | 07.01.2026 | | |

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

### 1.1 Product identifier
Corrosion Protection 100

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

**Sectors of use [SU]**
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Industrial uses
**Products Category [PC]**
PC-TEC-17 - Processing aids
**Technical Functions (TF)**
Corrosion inhibitor

### 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]
None

### 2.2 Label elements
None

### 2.3 Other hazards
None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures
**Hazardous ingredients**
None
**Further ingredients**
2,2`,2``-NITRILOTRIETHANOL ; REACH No. : 01-2119486482-31-XXXX ; EC No. : 203-049-8; CAS No. : 102-71-6
Weight fraction : ≥ 65 - < 70 %

## 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. If unconscious but breathing normally, place in recovery position and seek medical advice.

### Following inhalation
If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

### In case of skin contact
Remove contaminated, saturated clothing immediately. 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
None

## 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 (CO2) Sand Nitrogen Extinguishing blanket

### Unsuitable extinguishing media
Full water jet

## 5.2 Special hazards arising from the substance or mixture
### Hazardous combustion products
In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO2) Nitrogen oxides (NOx)

## 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray jet to protect personnel and to cool endangered containers. 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

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

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

Keep away from heat. Keep/Store only in original container. Protect against : Frost .

#### Hints on joint storage

**Storage class (TRGS 510) :** 12

### 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

2,2`,2``-NITRILOTRIETHANOL ; CAS No. : 102-71-6

| | |
|---|---|
| Limit value type (country of origin) : | TRGS 900 ( D ) |
| Parameter : | E: inhalable fraction |
| Limit value : | 1 mg/m³ |
| Peak limitation : | 1(I) |
| Remark : | Y |
| Version : | 23.06.2022 |

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

#### 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 :** yellow - brown

#### Odour

sweetish

#### Safety characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Solidifying point :** | ( 1013 hPa ) | approx. | -25 | °C | |
| **Initial boiling point and boiling range :** | ( 1013 hPa ) | | No data available | | |
| **Flash point :** | | | not applicable | | DIN EN ISO 13736 |
| **Auto-ignition temperature :** | | | none | | |
| **Flammability :** | | | non-flammable | | |
| **Lower explosion limit :** | | | not applicable | | |
| **Upper explosion limit :** | | | not applicable | | |
| **Vapur pressure :** | ( 20 °C ) | < | 24 | hPa | Calculated |
| **Density :** | ( 20 °C ) | approx. | 1,147 | g/cm³ | |
| **Water solubility :** | ( 20 °C ) | | completely miscible | | |
| **pH :** | ( 20 °C / 5 Vol-% ) | approx. | 8,6 | | in aqueous solution |
| **Cinematic viscosity :** | ( 20 °C ) | approx. | 329 | mm²/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-% | |

### 9.2 Other information

No further relevant information available.

## 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 mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

Keep away from: Strong acid , Strong alkali , Oxidizing agent

### 10.4 Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Endothermal decomposition with formation of: Carbon monoxide , Carbon dioxide (CO2) , Nitrogen oxides (NOx)
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

#### Corrosion

**Skin corrosion/irritation**

No further relevant information available.

**Serious eye damage/eye irritation**

No further relevant information available.

#### 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

Frequently or prolonged contact with skin may cause dermal irritation.

#### Additional information

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

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 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.

## 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**

12 01 99 (Wastes not otherwise specified)
20 01 30 (Detergents other than those mentioned in 20 01 29)

**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

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 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

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

**EU legislation**

**Other regulations (EU)**

**Labelling for contents according to regulation (EC) No. 648/2004**

None

**National regulations**

**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

01. Relevant identified uses

### 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 Classifiaction 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
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

### 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.