# EVAPO-RUST

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 17/02/2025 Revision date: 27/08/2024 Supersedes version of: 02/10/2023 Version: 1.4

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

### 1.1. Product identifier

Product name : EVAPO-RUST
Product code : BDS002699BU

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

**Relevant identified uses**

Main use category : Consumer use,Professional use
Use of the substance/mixture : Rust remover

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

**Supplier**
CRC Industries Europe B.V.
Touwslagerstraat 1
9240 Zele
Belgium
T +32(0)52/45.60.11, F +32(0)52/45.00.34
hse@crcind.com, www.crcind.com

### 1.4. Emergency telephone number

Emergency number : +32(0)52/45.60.11
Office hours: 9-17h CET

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| 2,2',2''-nitrilotriethanol<br>substance with national workplace exposure limit(s) (BE) | CAS-No.: 102-71-6<br>EC-No.: 203-049-8<br>REACH-no: 01-2119486482-31 | 1 – 5 | Not classified |
| Salt of an aliphatic acid | - | < 5 | Acute Tox. 4 (Oral), H302 (ATE=940 mg/kg bodyweight)<br>Eye Irrit. 2, H319 |
| Aliphatic carboxylic acid | - | < 3 | Eye Irrit. 2, H319<br>STOT SE 3, H335 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention.

First-aid measures after skin contact : Wash skin with plenty of water. Seek medical attention if irritation develops.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Seek medical attention if irritation develops.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.
Emergency procedures : Ventilate spillage area.

**For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Methods for cleaning up : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Ensure good ventilation of the work station. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**National occupational exposure and biological limit values**

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| **Belgium - Occupational Exposure Limits** | |
| Local name | Triéthanolamine # Tri-ethanolamine |
| OEL TWA | 5 mg/m³ |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |

### DNEL and PNEC

| Salt of an aliphatic acid | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 48 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 16,9 mg/m³ |
| Long-term - local effects, inhalation | 10 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 2,4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 4,2 mg/m³ |
| Long-term - systemic effects, dermal | 24 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 10 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0,0963 mg/l |
| PNEC aqua (marine water) | 0,00963 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 193 mg/kg dwt |
| PNEC sediment (marine water) | 19,3 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 14 mg/kg dwt |
| **PNEC (Oral)** | |
| PNEC oral (secondary poisoning) | 5,3 mg/kg food |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 58 mg/l |

## 8.2. Exposure controls

### Appropriate engineering controls

**Appropriate engineering controls:**
Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protection equipment

**Personal protective equipment symbol(s):**

### Eye and face protection

**Eye protection:**
Use eye protection according to EN 166. Safety glasses with side shields.

### Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
For incidental contact with the product wear chemical-resistant gloves (standard EN 374). The use of disposable gloves is acceptable provided that they are changed immediately after a splash or spill. Neoprene gloves are recommended.

### Respiratory protection

**Respiratory protection:**
No respiratory protection needed under normal use conditions

### Thermal hazards

**Thermal hazard protection:**
Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

### Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | colourless to yellow. |
| Odour | : | Neutral. |
| Odour threshold | : | Not available |
| Melting point | : | Not applicable |
| Freezing point | : | Not available |
| Boiling point | : | > 100 °C |
| Flammability | : | Non flammable. |
| Lower explosion limit | : | Not applicable |
| Upper explosion limit | : | Not applicable |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | > 200 °C |
| Decomposition temperature | : | Not available |
| pH | : | 5,5 |
| Viscosity, kinematic | : | Not available |
| Solubility | : | soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not applicable |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 1,05 g/cm³ at 20 °C |
| Relative density | : | 1,05 at 20 °C |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid temperatures exceeding the flash point.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2).

## SECTION 11: Toxicological information

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

**Acute toxicity (oral)** : Not classified (Based on available data, the classification criteria are not met)
**Acute toxicity (dermal)** : Not classified (Based on available data, the classification criteria are not met)
**Acute toxicity (inhalation)** : Not classified (Based on available data, the classification criteria are not met)

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| LD50 oral rat | 6400 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg |

| **Salt of an aliphatic acid** | |
|---|---|
| LD50 oral rat | 940 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight |

| **Aliphatic carboxylic acid** | |
|---|---|
| LD50 oral | 5400 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |

**Skin corrosion/irritation** : Not classified (Based on available data, the classification criteria are not met)
pH: 5,5

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| pH | 10,5 |

**Serious eye damage/irritation** : Not classified (Based on available data, the classification criteria are not met)
pH: 5,5

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| pH | 10,5 |

**Respiratory or skin sensitisation** : Not classified (Based on available data, the classification criteria are not met)
**Germ cell mutagenicity** : Not classified (Based on available data, the classification criteria are not met)
**Carcinogenicity** : Not classified (Based on available data, the classification criteria are not met)

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 63 mg/kg bodyweight |

| **Salt of an aliphatic acid** | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | ≥ 384 mg/kg bodyweight |
| NOAEL (chronic, oral, animal/female, 2 years) | ≥ 493 mg/kg bodyweight |

**Reproductive toxicity** : Not classified (Based on available data, the classification criteria are not met)

| **2,2',2''-nitrilotriethanol (102-71-6)** | |
|---|---|
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight |
| NOAEL (animal/female, F0/P) | 300 mg/kg bodyweight |

| **Salt of an aliphatic acid** | |
|---|---|
| NOAEL (animal/male, F1) | ≈ 294 mg/kg bodyweight |

**STOT-single exposure** : Not classified (Based on available data, the classification criteria are not met)

| Aliphatic carboxylic acid | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

**STOT-repeated exposure** : Not classified (Based on available data, the classification criteria are not met)

| 2,2',2''-nitrilotriethanol (102-71-6) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight |

| Aliphatic carboxylic acid | |
|---|---|
| LOAEL (oral, rat, 90 days) | 8000 mg/kg bodyweight |
| NOAEL (oral, rat, 90 days) | 4000 mg/kg bodyweight |

**Aspiration hazard** : Not classified (Based on available data, the classification criteria are not met)

### 11.2. Information on other hazards

**Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

| 2,2',2''-nitrilotriethanol (102-71-6) | |
|---|---|
| LC50 - Fish [1] | 11800 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | 609,88 mg/l Ceriodaphnia dubia |
| EC50 72h - Algae [1] | 512 mg/l Desmodesmus subspicatus |
| EC50 72h - Algae [2] | 216 mg/l Desmodesmus subspicatus |
| ErC50 algae | 169 mg/l |
| NOEC chronic fish | > 1 mg/l |

| Salt of an aliphatic acid | |
|---|---|
| LC50 - Fish [1] | 195 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 527 mg/l Daphnia magna |
| NOEC (chronic) | 6,75 mg/l Daphnia magna - 28 d |

| Aliphatic carboxylic acid | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |

### 12.2. Persistence and degradability

| EVAPO-RUST | |
|---|---|
| Persistence and degradability | Not established. No data is available on the degradability of this product. |

### 12.3. Bioaccumulative potential

| EVAPO-RUST | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | Not applicable |
| **2,2',2''-nitrilotriethanol (102-71-6)** | |
| Partition coefficient n-octanol/water (Log Pow) | -1,6 |
| **Salt of an aliphatic acid** | |
| Partition coefficient n-octanol/water (Log Pow) | -3 |
| **Aliphatic carboxylic acid** | |
| Partition coefficient n-octanol/water (Log Pow) | -1,72 |

### 12.4. Mobility in soil

| Salt of an aliphatic acid | |
|---|---|
| Mobility in soil | -6,279 |

### 12.5. Results of PBT and vPvB assessment

| EVAPO-RUST | |
|---|---|
| Results of PBT assessment | Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

| EVAPO-RUST | |
|---|---|
| Other information | No other effects known |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW, EC 2000/532) : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| Not regulated for transport | | | | |

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.2. UN proper shipping name** | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **14.3. Transport hazard class(es)** | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **14.4. Packing group** | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **14.5. Environmental hazards** | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**
Not regulated.

**Transport by sea**
Not regulated.

**Air transport**
Not regulated.

**Inland waterway transport**
Not regulated.

**Rail transport**
Not regulated.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

**EU-Regulations**

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (2024/590)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

**Council Regulation (EC) for the control of dual-use items**

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Triethanolamine (102-71-6).

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| 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 |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |

| Abbreviations and acronyms: | |
|---|---|
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| EUH210 | Safety data sheet available on request. |