

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 03/11/2022

Reviewed on 03/11/2022

### 1 Identification

- **Product identifier**
- **Trade name: BullFrog 94236 Rust Remover**
- **Application of the substance / the mixture**  
Rust remover/ rust-removing agent  
Corrosion inhibitors
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
CorteCros d.o.o.  
Nova Ves 57  
HR-10000 Zagreb  
CROATIA  
Tel: (+385) 1 466 92 80  
Fax: (+385) 1 466 73 82
- 
- EcoCortec d.o.o.  
Bele Bartoka 29  
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Tel: (+385) 31 705 011  
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Cortec Corporation  
4119 White Bear Parkway  
St. Paul, MN 55110 USA  
Phone (651) 429-1100  
Fax (651) 429-1122
- **Information department:**  
info@cortecros.hr  
compliance@cortecvci.com
- **Emergency telephone number:**  
Spill, Leak, Fire, Exposure, or Accident  
24 hour CHEMTREC contact:  
USA and Canada 1-800-424-9300  
International +1-703-527-3887 (collect calls accepted)

### 2 Hazard identification

- **Classification of the substance or mixture**



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure -  
Category 3

H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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## · Hazard pictograms



GHS07

## · Signal word Warning

## · Hazard-determining components of labeling:

citric acid

## · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

## · Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/Information on ingredients

## · Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

## · Dangerous components:

|         |             |                |
|---------|-------------|----------------|
| 77-92-9 | citric acid | ≥20-≤40% w/w * |
|---------|-------------|----------------|

\* Actual concentration ranges are withheld as a trade secret.

## · Additional information

For the wording of the listed hazard phrases refer to section 16.

The specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

### 4 First-aid measures

## · Description of first aid measures

· General information Immediately remove any clothing soiled by the product.

· After inhalation Supply fresh air; consult doctor in case of complaints.

## · After skin contact

Immediately wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing** If symptoms persist consult doctor.

- **Information for doctor** Show this safety data sheet to the doctor in attendance.

- **Most important symptoms and effects, both acute and delayed**

The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters** Self-contained breathing apparatus

- **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow undiluted product to enter sewers/surface or ground water

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

- **Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- **Handling**

- **Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

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- **Information about storage in one common storage facility:**
  - Do not store together with alkalis (caustic solutions).
  - Store away from foodstuffs.
- **Further information about storage conditions:** Keep product from freezing.
- **Storage class 12**
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/ Personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls** Use local exhaust ventilation to control airborne concentrations below exposure limits.
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

Refer to CSA Standard Z94.4 for "Selection, Use and Care of Respirators".

- **Protection of hands:**
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Protective Gloves** I.E., Nitrile, Viton, Neoprene
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Gel             |
| <b>Color:</b>          | Dark brown      |
| <b>Odor:</b>           | Characteristic  |
| <b>Odor threshold:</b> | Not determined. |

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|   |   |
|---|---|
| · <b>pH-value at 20 °C:</b>                       | <2.1  |
| · <b>Change in condition</b>                      |   |
| <b>Melting point/Melting range:</b>               | undetermined  |
| <b>Boiling point/Boiling range:</b>               | 100 °C (*)  |
| · <b>Flash point:</b>                             | Not applicable  |
| · <b>Flammability (solid, gaseous)</b>            | Not applicable.   |
| · <b>Ignition temperature:</b>                    | 1,010 °C (*)  |
| · <b>Decomposition temperature:</b>               | Not determined.   |
| · <b>Auto igniting:</b>                           | Product is not selfigniting.  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard.   |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | Not determined.   |
| <b>Upper:</b>                                     | Not determined.   |
| · <b>Vapor pressure at 20 °C:</b>                 | 23 hPa (*)  |
| · <b>Density at 20 °C:</b>                        | 1.16-1.20 g/cm <sup>3</sup>   |
| · <b>Relative density</b>                         | Not determined.   |
| · <b>Vapor density</b>                            | Not determined.   |
| · <b>Evaporation rate</b>                         | Not determined.   |
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible  |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| · <b>Viscosity:</b>                               |   |
| <b>dynamic:</b>                                   | Not determined.   |
| <b>kinematic:</b>                                 | Not determined.   |
| · <b>Other information</b>                        | The above data are typical values and do not constitute a specification.<br>*Properties have been calculated. |

### 10 Stability and reactivity

- **Reactivity** Reacts with Alkalis.
- **Chemical stability** Stable under recommended storage conditions
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Alkaline materials
- **Hazardous decomposition products:** No dangerous decomposition products known

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### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**77-92-9 citric acid**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 6,730 mg/kg (rat) |
|------|------|-------------------|

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

|      |  |
|------|--|
| LC50 | 316 mg/l (Daphnia pulex) (48 Hours)                        |
|      | 316 mg/l (M. beryllina (Inland Silverside))                |
|      | 316 mg/l (Mysidopsis bahia) (48 Hours)                     |
|      | 316 mg/l (Pimephales promelas (Fathead minnow)) (48 Hours) |
| LOEC | 1,000 mg/l (Daphnia pulex)                                 |
|      | 1,000 mg/l (M. beryllina (Inland Silverside))              |
|      | 1,000 mg/l (Mysidopsis bahia)                              |
|      | 1,000 mg/l (Pimephales promelas (Fathead minnow))          |
| NOEC | 100 mg/l (Daphnia pulex)                                   |
|      | 100 mg/l (M. beryllina (Inland Silverside))                |
|      | 100 mg/l (Mysidopsis bahia)                                |
|      | 100 mg/l (Pimephales promelas (Fathead minnow))            |

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Dispose of in accordance with local, state, and federal regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |  |                                   |
|--|-----------------------------------|
| · <b>UN-Number</b>   |                                   |
| · <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>   | not classified as dangerous goods |
| · <b>UN proper shipping name</b>   |                                   |
| · <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>   | not classified as dangerous goods |
| · <b>Transport hazard class(es)</b>  |                                   |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                                   |
| · <b>Class</b>   | not classified as dangerous goods |
| · <b>Packing group</b>   |                                   |
| · <b>DOT/TDG, ADR, IMDG, IATA</b>  | not classified as dangerous goods |
| · <b>Environmental hazards:</b>  | Not applicable.                   |
| · <b>Special precautions for user</b>  | Not applicable.                   |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                   |
| · <b>UN "Model Regulation":</b>  | not classified as dangerous goods |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

- **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL): (Substances not listed)**

All ingredients are listed.

- **Canadian Non-Domestic Substances List (NDSL): (Substances not listed)**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



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- **Signal word** Warning
- **Hazard-determining components of labeling:**  
citric acid
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  
P312 Call a poison center/doctor if you feel unwell.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
Cortec Corporation does not warranty any translation of this SDS not created by Cortec Corporation.

- **Date of the latest revision of the safety data sheet** 03/11/2022 / -
- **Abbreviations and acronyms:**  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative
- **\* Data compared to the previous version altered.**

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