

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

## 1 Identification

- **Product identifier**
- **Trade name:** BullFrog® Rustorer 92309
- **Application of the substance / the mixture** Primer/ Subcoating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Cortec Corporation  
4119 White Bear Parkway  
St. Paul, MN 55110 USA  
Phone (651) 429-1100  
Fax (651) 429-1122
- **Information department:** [compliance@cortecvci.com](mailto: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(s) identification

- **Classification of the substance or mixture**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
2-(2-butoxyethoxy)ethanol  
5-nonylsalicylaldehyde oxime
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
P302+P352 If on skin: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see first aid statements on this label).  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 1)

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2A, H319	≤2.5%
CAS: 50849-47-3 EINECS: 256-798-8	5-nonylsalicylaldehyde oxime ⚠ Acute Tox. 3, H301	≤2.5%
CAS: 126-86-3 EINECS: 204-809-1	2,4,7,9-tetramethyldec-5-yne-4,7-diol ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥0.1-<1%

- **Additional information**

In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200), the specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

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

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably on side position for transportation.
- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Call a doctor immediately.
- **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 self-contained respiratory protective device.  
Wear fully protective suit.

USA

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 2)

## 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**  
No dangerous substances are released.  
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**  
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.
- **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** 10
- **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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 112-34-5 2-(2-butoxyethoxy)ethanol (≤2.5%)

TLV	Long-term value: 67.5* mg/m <sup>3</sup> , 10* ppm *Inhalable fraction and vapor
-----	---

- **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**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

(Contd. on page 4)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 3)

### · 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.

### · 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:

**Form:** Viscous liquid

**Color:** Various colors

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

#### · Change in condition

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** 100 °C (212 °F) (\*)

· **Flash point:** >100 °C (>212 °F) (\*)

· **Flammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg) (\*)

· **Density at 20 °C (68 °F):** 1.37-1.44 g/cm<sup>3</sup> (11.4-12 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

(Contd. on page 5)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 4)

· <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>Solvent content:</b>	
<b>VOC Content:</b>	12.0 g/l / 0.10 lb/gal
· <b>Other information</b>	The above data are typical values and do not constitute a specification. *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:** Avoid contact with strong acids, strong bases (e.g. alkalis) and oxidizers
- **Hazardous decomposition products:**  
Hydrogen chloride (HCl)  
Chlorine  
Ammonia  
Carbon monoxide and carbon dioxide  
Nitrogen oxides

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · LD/LC50 values that are relevant for classification:

#### 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	2,410 mg/kg (Rat)
Dermal	LD50	2,764 mg/kg (Rabbit)
Inhalative	LC50/4 h	>29 mg/l (Rat)

#### 126-86-3 2,4,7,9-tetramethyldec-5-yne-4,7-diol

Oral	LD50	>4,600 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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

The International Agency for Research on Cancer (IARC) has classified occurring "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to crystalline

(Contd. on page 6)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

**Trade name: BullFrog® Rustorer 92309**

(Contd. of page 5)

silica dusts and do not apply to solid activated carbon containing crystalline silica as a naturally occurring, bound impurity. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommend that users avoid inhalation of product in a dust form.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

14808-60-7	Quartz (SiO <sub>2</sub> )	1
75-35-4	1,1-dichloroethylene	3
80-62-6	methyl methacrylate	3
75-01-4	chloroethylene	1
128-37-0	Butylated hydroxytoluene	3
75-56-9	propylene oxide	2B
75-21-8	ethylene oxide	1
123-91-1	1,4-dioxane	2B

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
75-01-4	chloroethylene	K
75-56-9	propylene oxide	R
75-21-8	ethylene oxide	K
123-91-1	1,4-dioxane	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

75-01-4	chloroethylene
75-21-8	ethylene oxide

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**126-86-3 2,4,7,9-tetramethyldec-5-yne-4,7-diol**

LC50/ 96 h	42 mg/l (Cyprinus carpio)
	36 mg/l (Pimephales promelas (Fathead minnow))
EC50	91 mg/l (Daphnia) (48 hours)
EC50/72 h	82 mg/l (Algae) (72 Hours)
	15 mg/l (Pseudokirchnerella subcapitata)

- **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.

USA

(Contd. on page 7)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 6)

### 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, ADR, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· <b>SARA Section 355 (extremely hazardous substances)</b>	
75-56-9	propylene oxide
75-21-8	ethylene oxide
· <b>SARA Section 313 (specific toxic chemical listings)</b>	
112-34-5	2-(2-butoxyethoxy)ethanol
107-21-1	ethane-1,2-diol
84852-15-3	4-nonylphenol, branched
75-35-4	1,1-dichloroethylene
80-62-6	methyl methacrylate
75-01-4	chloroethylene
75-56-9	propylene oxide
75-21-8	ethylene oxide
123-91-1	1,4-dioxane

(Contd. on page 8)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

Trade name: BullFrog® Rustorer 92309

(Contd. of page 7)

· **TSCA (Toxic Substances Control Act) (Substances not listed)**

All ingredients are listed.

· **Proposition 65**

· **Prop 65 - Chemicals known to cause cancer**

14808-60-7 Quartz (SiO<sub>2</sub>)

75-35-4 1,1-dichloroethylene

75-01-4 chloroethylene

75-56-9 propylene oxide

75-21-8 ethylene oxide

123-91-1 1,4-dioxane

· **Chemicals known to cause reproductive toxicity for females**

75-21-8 ethylene oxide

· **Chemicals known to cause reproductive toxicity for males**

75-21-8 ethylene oxide

· **Chemicals known to cause developmental toxicity**

107-21-1 ethane-1,2-diol

75-21-8 ethylene oxide

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

75-35-4 1,1-dichloroethylene

C, S (inh.), I (oral)

80-62-6 methyl methacrylate

E, NL

75-01-4 chloroethylene

A, K/L

75-56-9 propylene oxide

B2

75-21-8 ethylene oxide

CaH

123-91-1 1,4-dioxane

L

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7 Quartz (SiO<sub>2</sub>)

75-35-4 1,1-dichloroethylene

75-01-4 chloroethylene

75-56-9 propylene oxide

75-21-8 ethylene oxide

123-91-1 1,4-dioxane

· **Canadian Domestic Substances List (DSL) (Substances not listed)**

5-nonylsalicylaldehyde oxime

propylene oxide

· **Philippines Inventory of Chemicals and Chemical Substances (Substances not listed)**

5-nonylsalicylaldehyde oxime

Polyurethane resin

· **Chinese Chemical Inventory of Existing Chemical Substances (Substances not listed)**

All ingredients are listed.

· **Australian Inventory of Chemical Substances (Substances not listed)**

All ingredients are listed.

(Contd. on page 9)



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

**Trade name: BullFrog® Rustorer 92309**

(Contd. of page 8)

**· New Zealand Inventory of Chemicals (Substances not listed)**

Polyurethane resin

**· Existing Chemical Substances (Substances not listed)**

All ingredients are listed.

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

**· Hazard pictograms**


GHS07

**· Signal word** Warning

**· Hazard-determining components of labeling:**

2-(2-butoxyethoxy)ethanol

5-nonylsalicylaldehyde oxime

**· Hazard statements**

H317 May cause an allergic skin reaction.

**· Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see first aid statements on this label).

P363 Wash contaminated clothing before reuse.

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

**· National regulations**
**· Technical instructions (air):**

Class	Share in %
Wasser	25-50
NK	≤2.5

**· 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 preparation / last revision** 11/05/2018 / -

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/05/2018

Reviewed on 11/05/2018

**Trade name: BullFrog® Rustorer 92309**

(Contd. of page 9)

VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1

· **\* Data compared to the previous version altered.**

USA