

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/15/2016

Reviewed on 02/15/2016

1 Identification

- **Product identifier**
- **Trade name:** BullFrog 93896 Rust Blocker
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Corrosion inhibitors
Coating
- **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:** regulatory@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 Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.

- **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 statements**
Causes skin irritation.
Causes serious eye irritation.
- **Precautionary statements**
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see first aid statements on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water.

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- Take off contaminated clothing and wash it before reuse.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

- **Dangerous components:**

| | | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| CAS: 108-01-0 EINECS: 203-542-8 | 2-dimethylaminoethanol ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | ≤ 2.5% |
| CAS: 112-34-5 EINECS: 203-961-6 | 2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2A, H319 | ≤ 2.5% |

- **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; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** 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**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)

6 Accidental release measures

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



Wear protective equipment. Keep unprotected persons away.

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- **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).
- **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** No special precautions are necessary if used correctly.
- **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 acids.
Store away from foodstuffs.
- **Further information about storage conditions:** Keep product from freezing.
- **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:**

112-34-5 2-(2-butoxyethoxy)ethanol ($\leq 2.5\%$)

| | |
|-----------|-------------------------------------------------------------------------------------|
| TLV (USA) | Long-term value: 67.5* mg/m ³ , 10* ppm *Inhalable fraction and vapor |
|-----------|-------------------------------------------------------------------------------------|

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** Wash hands before breaks and at the end of work.
- **Breathing equipment:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Filter A/P2.
- **Protection of hands:**
Latex Gloves
Protective gloves
I.E., Nitrile, Viton, Neoprene
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.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing.

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9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

| | |
|--------------------------|-----------------|
| Form: | Viscous |
| Color: | Light beige |
| · Odor: | Characteristic |
| · Odor threshold: | Not determined. |

- **pH-value at 20 °C (68 °F):** 8.7-10 (Neat)

- **Change in condition**

| | |
|------------------------------|--------------|
| Melting point/Melting range: | undetermined |
| Boiling point/Boiling range: | undetermined |

- **Flash point:** Not applicable

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

- **Ignition temperature:**

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 mm Hg) (*)

- **Density at 20 °C (68 °F):** 0.95-1.01 g/cm³ (7.928-8.428 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

Water: Fully miscible

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

- **Other information**

The above data are typical values and do not constitute a specification.
*Properties have been calculated.

10 Stability and reactivity

- **Reactivity** Reacts with acids.

- **Chemical stability**

- **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:** Acids

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· 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:

108-01-0 2-dimethylaminoethanol

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 1183 mg/kg (Rat) |
| Dermal | LD50 | 1219 mg/kg (Rabbit) |
| Inhalative | LC50/4 h | 6 mg/l (Rat) |

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

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 2410 mg/kg (Rat) |
| Dermal | LD50 | 2764 mg/kg (Rabbit) |
| Inhalative | LC50/4 h | >29 mg/l (Rat) |

64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

| | | |
|--------|------|----------------------|
| Oral | LD50 | 5,000 mg/kg (Rat) |
| Dermal | LD50 | 5,000 mg/kg (Rabbit) |

· Primary irritant effect:

· on the skin: Repeated or prolonged skin contact with this product may produce skin irritation.

· on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

| | | |
|----------|---------------------|----|
| 100-42-5 | styrene | 2B |
| 50-00-0 | formaldehyde | 1 |
| 79-10-7 | acrylic acid | 3 |
| 80-62-6 | methyl methacrylate | 3 |

· NTP (National Toxicology Program)

| | | |
|----------|--------------|---|
| 100-42-5 | styrene | R |
| 50-00-0 | formaldehyde | K |

· OSHA-Ca (Occupational Safety & Health Administration)

| | |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

12 Ecological information

· Toxicity

· Aquatic toxicity:

| | |
|---------------------|---------------------------------------------------------|
| LC50/ 48 h (static) | 3110 mg/l (M. beryllina (Inland Silverside)) (48 Hours) |
| | 2610 mg/l (Mysidopsis bahia) |
| LOEC (static) | 4800 mg/l (M. beryllina (Inland Silverside)) (LOEC) |
| | 2400 mg/l (Mysidopsis bahia) (LOEC) |
| NOEC (static) | 2400 mg/l (M. beryllina (Inland Silverside)) (2 days) |

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1200 mg/l (Mysidopsis bahia) (2 days)

- **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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---------------------------------------|-----------------|
| · UN-Number | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · Packing group | Void |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | No |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |

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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

15 Regulatory information

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

The following chemicals are contained in this product below 0.05%: styrene, formaldehyde, methanol, acrylic acid, and methyl methacrylate.

· **SARA Section 355 (extremely hazardous substances)**

| | |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

· **SARA Section 313 (specific toxic chemical listings)**

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

| | |
|----------|---------|
| 100-42-5 | styrene |
|----------|---------|

| | |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

| | |
|---------|----------|
| 67-56-1 | methanol |
|---------|----------|

| | |
|---------|--------------|
| 79-10-7 | acrylic acid |
|---------|--------------|

| | |
|---------|---------------------|
| 80-62-6 | methyl methacrylate |
|---------|---------------------|

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

All ingredients are listed.

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

| | |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

| | | | |
|---------|--------------|--|----|
| 50-00-0 | formaldehyde | | B1 |
|---------|--------------|--|----|

| | | | |
|---------|---------------------|--|-------|
| 80-62-6 | methyl methacrylate | | E, NL |
|---------|---------------------|--|-------|

· **TLV (Threshold Limit Value established by ACGIH)**

| | | | |
|----------|---------|--|----|
| 100-42-5 | styrene | | A4 |
|----------|---------|--|----|

| | | | |
|---------|--------------|--|----|
| 50-00-0 | formaldehyde | | A2 |
|---------|--------------|--|----|

| | | | |
|---------|--------------|--|----|
| 79-10-7 | acrylic acid | | A4 |
|---------|--------------|--|----|

| | | | |
|---------|---------------------|--|----|
| 80-62-6 | methyl methacrylate | | A4 |
|---------|---------------------|--|----|

· **MAK (German Maximum Workplace Concentration)**

| | | | |
|----------|---------|--|---|
| 100-42-5 | styrene | | 5 |
|----------|---------|--|---|

| | | | |
|---------|--------------|--|---|
| 50-00-0 | formaldehyde | | 4 |
|---------|--------------|--|---|

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

| | |
|---------|--------------|
| 50-00-0 | formaldehyde |
|---------|--------------|

· **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 statements**
 - Causes skin irritation.
 - Causes serious eye irritation.
- **Precautionary statements**
 - Wear protective gloves.
 - Wear eye protection / face protection.
 - Wash thoroughly after handling.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Specific treatment (see first aid statements on this label).
 - If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.
 - IF ON SKIN: Wash with plenty of water.
 - Take off contaminated clothing and wash it before reuse.

- **National regulations**

- **Technical instructions (air):**

| Class | Share in % |
|--------|------------|
| Wasser | 16.2 |
| NK | 1.5 |

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **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.

- **Relevant phrases**

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

- **Date of preparation / last revision** 02/15/2016 / -

- **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
ACGIH: American Conference of Governmental Industrial Hygienists
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health

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Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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

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