

**Safety Data Sheet**  
**OSHA Hazard Communication Standard**  
**29 CFR 1910.1200. Prepared to GHS Rev 7.**

Date of issue: 12.04.2024

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<b>Trade name: CRS-101 Red Tide</b>
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<b>SECTION 1: Identification</b>
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**Product identifier used on the label:**

**Product Name:** CRS-101 Red Tide

**Other means of identification:**

**Product Code Number:** C40, 0101

**Synonyms:** Red Tide

**Recommended use of the chemical and restrictions on use:**

**Recommended use:** General Purpose Degreaser

**Recommended restrictions:** Uses other than those described above

**Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:**

**Company Name:** Crest Industries

**Company Address:** 231 Larkin Williams Industrial Ct.  
Fenton, MO 63026

**Company Telephone:** (800) 733-2737

**Emergency phone number:** 24-hour Emergency Number (800) 424-9300

<b>SECTION 2: Hazard identification</b>
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**Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200:**

***Physical hazards***

None expected

***Health hazards***

Serious eye irritation, category 2A

Reproductive toxicity, category 2

***Environmental hazards***

Not adopted under OSHA paragraph (d)(1)(i) of §1910.1200

**GHS Signal word:** WARNING

**GHS Hazard statement(s):** Causes serious eye irritation  
Suspected of damaging fertility or the unborn child.

**GHS Hazard symbol(s):**



**GHS Precautionary statement(s):**

**Prevention:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection

**Response:**

- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If exposed or concerned: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.

**Storage:**

- Store locked up

**Disposal:**

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

**Describe any hazards not otherwise classified that have been identified during the classification process:**

None known.

**Percentage of ingredient(s) of unknown acute toxicity:**

Not applicable

**SECTION 3: Composition/information on ingredients**

Chemical name	CAS#	Concentration (weight %)
2-Butoxyethanol	111-76-2	1 - 5%
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Proprietary	1 - 5%
Isopropylidene glycol	100-79-8	1 - 5%

The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200 (2024).

**SECTION 4: First-aid measures**

**Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:**

**Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

**Skin contact:** Remove contaminated clothing. Wash with water and soap and rinse thoroughly. Seek medical advice if irritation or pain develops.

**Eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:** Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. Follow with plenty of water. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

**Most important symptoms/effects, acute and delayed:**

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

**Indication of immediate medical attention and special treatment needed, if necessary:**

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

### SECTION 5: Fire-fighting measures

**Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** Use foam, powder, or carbon dioxide to extinguish

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

Combustible material. Burns but does not ignite readily. Containers may explode when heated.

Hazardous combustion products may include the following substances: Carbon monoxide, Carbon dioxide.

**Special protective equipment and precautions for fire-fighters:**

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

### SECTION 6: Accidental release measures

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

No action shall be taken involving any personal risk or without suitable training.

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities.

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

Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

### SECTION 7: Handling and storage

**Precautions for safe handling:**

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Avoid contact with skin. Do not breathe vapor. Only use in well-ventilated areas. Keep container tightly closed when not in use. Provide emergency eye washing and shower facilities.

Conditions for safe storage, including any incompatibles:

Storage area should be cool and dry. Keep away from direct sunlight. Keep in a well-ventilated place. Store in a banded area. For containers use mild steel or stainless steel. Do not store in plastics or natural, butyl, polychloroprene or nitrile rubbers. Avoid contact with oxidizers.

SECTION 8: Exposure controls/personal protection

For all ingredients or constituents listed in Section 3, the OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit or range used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
2-Butoxyethanol	50 ppm, 240 mg/m3 TWA	20 ppm TWA	5 ppm, 24 mg/m3 TWA
Alcohols, C11-14-iso-, C13-rich, ethoxylated	None known	None known	None known
Isopropylidene glycol	None known	None known	None known

Appropriate engineering controls:

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.

Provide eyewash station. Eye wash fountain and emergency showers are recommended. Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear safety glasses, safety glasses with side shields or safety goggles. Use equipment for eye protection tested and approved under NIOSH standards.

**Skin and hand protection:** Chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical resistant apron.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a chemical respirator with organic vapor cartridge and full facepiece. Use respirators and components tested and approved under appropriate government standards such as NIOSH).

**General hygiene considerations:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**SECTION 9: Physical and chemical properties**

<b>Physical state:</b>	Liquid.
<b>Color:</b>	Clear red
<b>Odor (includes odor threshold):</b>	Characteristic degreaser
<b>Melting point/freezing point:</b>	Not determined
<b>Boiling point (or initial boiling point or boiling range):</b>	Not determined
<b>Flammability:</b>	Not expected to be flammable
<b>Lower and upper explosion limit/flammability limit:</b>	
<b>Lower limit (%):</b>	Not determined
<b>Upper limit (%):</b>	Not determined
<b>Flash point:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>pH:</b>	10.7
<b>Kinematic viscosity:</b>	Not determined
<b>Solubility:</b>	Easily soluble in water and methanol (>50%), Partially soluble in acetone (1-10%)
<b>Partition coefficient n-octanol/water (log value):</b>	Not determined
<b>Vapor pressure (includes evaporation rate):</b>	Not determined
<b>Density and/or relative density:</b>	1.01
<b>Relative vapor density:</b>	Not determined

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Particle characteristic: Not determined  
Volatile Organic Compound (VOC): Not determined

SECTION 10: Stability and reactivity

Reactivity: This product is not expected to be reactive under normal handling and storage conditions.

Chemical stability: Stable under recommended storage and handling conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies: Hazardous reactions not anticipated under recommended storage and handling conditions.

Conditions to avoid: High temperatures and sources of ignition.  
Prolonged exposure to air/oxygen and light.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: No decomposition if used and stored according to specifications. Will produce carbon oxides on combustion.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: May cause drowsiness or dizziness.

Ingestion: May be fatal if swallowed and enters airways.

Skin: May cause skin irritation.

Eyes: Causes serious eye irritation.

Target Organs: Eyes, Respiratory Tract, Central Nervous System, Reproductive system

Symptoms related to the physical, chemical, and toxicological characteristics:  
Causes serious eye irritation.

Delayed and immediate effects and also chronic effects from short or long-term exposure:  
In addition to the above symptoms, suspected of damaging fertility or the unborn child

Numerical measures of toxicity (such as acute toxicity estimates):

Acute toxicity: Does not meet the criteria for classification.

Substance	Test Type (species)	Value
2-Butoxyethanol	LD <sub>50</sub> Oral (Guinea pig)	1414 mg/kg

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	LD <sub>0</sub> Dermal (Guinea pig)	> 2000 mg/kg
	LC <sub>0</sub> Inhalation (Guinea pig)	> 633 ppm 1h
Alcohols, C11-14- iso- C13-rich, ethoxylated	LD <sub>50</sub> Oral (Rat)	No data available
	LD <sub>50</sub> Dermal (Rabbit)	No data available
	LC <sub>50</sub> Inhalation (Rat)	No data available
Isopropylidene glycol	LD <sub>50</sub> Oral (Rat)	7000 mg/kg
	LD <sub>50</sub> Dermal (Rat)	> 2000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	5.11 mg/L air 4h

<b>Skin corrosion/irritation:</b>	Does not meet the criteria for classification
<b>Serious eye damage/eye irritation:</b>	Causes serious eye irritation
<b>Respiratory sensitization:</b>	Does not meet the criteria for classification
<b>Skin sensitization:</b>	Does not meet the criteria for classification
<b>Germ cell mutagenicity:</b>	Does not meet the criteria for classification
<b>Carcinogenicity:</b>	Does not meet the criteria for classification.
<b>Reproductive toxicity:</b>	Suspected of damaging fertility or the unborn child
<b>Specific target organ toxicity- Single exposure:</b>	Does not meet the criteria for classification
<b>Specific target organ toxicity- Repeat exposure:</b>	Does not meet the criteria for classification
<b>Aspiration hazard:</b>	Does not meet the criteria for classification

**Interactive effects:** None known

**Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:**



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Component	IARC	NTP	ACGIH	OSHA
2-Butoxyethanol	Not Listed	Present	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not Listed
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Not Listed	Not Listed	Not Listed	Not Listed
Isopropylidene glycol	Not Listed	Not Listed	Not Listed	Not Listed

### SECTION 12: Ecological information

#### Ecotoxicity (aquatic and terrestrial, where available):

Substance	Test Type	Species	Value
2-Butoxyethanol	LC <sub>50</sub>	Fish <i>Lepomis macrochirus</i>	1474 mg/L 96h
	EC <sub>50</sub>	Aquatic Invertebrates - <i>Daphnia magna</i>	1800 mg/L 48h
	EC <sub>50</sub>	Algae <i>Pseudokirchneriella subcapitata</i>	1840 mg/L 72h
Alcohols, C11-14-iso- C13-rich, ethoxylated	LC <sub>50</sub>	Fish	> 1.8 mg/L 96h
	IC <sub>50</sub>	Aquatic Invertebrates - <i>Daphnia magna</i>	4.2 mg/L 24h
	EC <sub>50</sub>	Algae	1.8 mg/L 72h
Isopropylidene glycol	LC <sub>50</sub>	Fish <i>Pimephales promelas</i>	16700 mg/L 96h
	EC <sub>50</sub>	Aquatic Invertebrates - <i>Daphnia magna</i>	4.6 g/L 48h
	EC <sub>50</sub>	Algae - freshwater algae	15 g/L 48h

#### Persistence and Degradability:

No data available for this product

#### Bioaccumulative Potential:

No data available for this product

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### Mobility in Soil:

No data available for this product

### Other adverse effects (such as hazardous to the ozone layer):

None known

## SECTION 13: Disposal considerations

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.**

### Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

### Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

## SECTION 14: Transport Information

<b>UN number:</b>	Not regulated
<b>UN proper shipping name:</b>	Not regulated
<b>Transport hazard class(es):</b>	Not regulated
<b>Packing group, if applicable:</b>	Not regulated

### Environmental hazards

Marine pollutant: No

### Transport in bulk (according to IMO instruments)

No further relevant information available.

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

None known

## SECTION 15: Regulatory Information

### USA:

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All components are listed on the TSCA inventory.

### CERCLA RQ (lbs) Ingredients (> 0.1%):

None of the components are listed

**SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311, 312 and 313:**

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### **Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) (> 0.1%):**

None of the components are listed

### **Section 311/312 (40 CFR 370) (> 0.1%):**

Reproductive toxicity

Serious eye damage or eye irritation

### **Section 313 Toxic Release Inventory (40 CFR 372) (> 0.1%):**

None of the components are listed

## **STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

### **California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):**

None of the components are listed

### **Massachusetts Right to Know:**

None of the components are listed

### **New Jersey Right to Know:**

2-Butoxyethanol is listed

### **Pennsylvania Right to Know:**

2-Butoxyethanol is listed

## **SECTION 16: Other Information**

**Revision Date:** December 4, 2024

**DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.