

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** CRYSTAL RED STAIN™ PLUS  
**Revision date** 12-30-2011  
**Version #** 01  
**CAS #** Mixture  
**Product code** CRS-5  
**Product use** Cleaner.  
**Manufacturer/Supplier** R.E. Whittaker Co.  
302 South Croton Avenue  
New Castle, PA. 16101 USA  
**Telephone number** (724) 658-8568  
**Emergency** (800) 535-5053

## 2. Hazards Identification

**Physical state** Liquid.  
**Appearance** Clear light yellow liquid.  
**Emergency overview** WARNING!

May cause skin and eye irritation. Mist or vapor may be irritating to eyes and respiratory tract.

**OSHA regulatory status** This product is hazardous according to OSHA 29 CFR 1910.1200.

### Potential health effects

**Routes of exposure** Inhalation. Eye contact. Skin contact.

**Eyes** May cause eye irritation.

**Skin** May cause skin irritation.

**Inhalation** May be irritating to the respiratory tract.

**Ingestion** No harmful effects expected in amounts likely to be ingested by accident.

**Potential environmental effects** Not expected to be harmful to aquatic organisms.

## 3. Composition / Information on Ingredients

| Components                          | CAS #      | Percent |
|-------------------------------------|------------|---------|
| Alcohols, C12-13, ethoxylated       | 66455-14-9 | <5      |
| Dipropylene glycol monomethyl ether | 34590-94-8 | <5      |
| Sodium metabisulfite                | 7681-57-4  | <5      |

## 4. First Aid Measures

### First aid procedures

**Eye contact** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

**Skin contact** Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

**Inhalation** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Ingestion** Seek medical advice.

## 5. Fire Fighting Measures

**Flammable properties** No unusual fire or explosion hazards noted.

### Extinguishing media

**Suitable extinguishing media** Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Fire fighting equipment/instructions** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Hazardous combustion products** Carbon oxides.

## 6. Accidental Release Measures

**Personal precautions** Not normally required. For industrial use, wear appropriate personal protective equipment (See Section 8).

**Methods for cleaning up** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

## 7. Handling and Storage

**Handling** Observe good industrial hygiene practices.  
If frozen, allow to thaw to room temperature. Mix before using.

**Storage** Keep container closed. Do not store near heat. Store away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                                       | Type | Value   |
|--|------|---------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 150 ppm |
| Sodium metabisulfite (7681-57-4)                 | TWA  | 100 ppm |
|  | TWA  | 5 mg/m3 |

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                                       | Type | Value     |
|--|------|-----------|
| Dipropylene glycol monomethyl ether (34590-94-8) | PEL  | 600 mg/m3 |
|  |      | 100 ppm   |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                                       | Type | Value     |
|--|------|-----------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 909 mg/m3 |
|  |      | 150 ppm   |
|  | TWA  | 606 mg/m3 |
|  |      | 100 ppm   |
| Sodium metabisulfite (7681-57-4)                 | TWA  | 5 mg/m3   |

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                                       | Type | Value   |
|--|------|---------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 150 ppm |
|  |      | 100 ppm |
|  | TWA  | 5 mg/m3 |
| Sodium metabisulfite (7681-57-4)                 | TWA  | 5 mg/m3 |

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                                       | Type | Value   |
|--|------|---------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 150 ppm |
|  |      | 100 ppm |
|  | TWA  | 5 mg/m3 |
| Sodium metabisulfite (7681-57-4)                 | TWA  | 5 mg/m3 |

**Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

| Components                                       | Type | Value              |
|--|------|--------------------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 909 mg/m3          |
|  | TWA  | 150 ppm            |
|  |      | 606 mg/m3          |
| Sodium metabisulfite (7681-57-4)                 | TWA  | 100 ppm<br>5 mg/m3 |

**Mexico. Occupational Exposure Limit Values**

| Components                                       | Type | Value                |
|--|------|----------------------|
| Dipropylene glycol monomethyl ether (34590-94-8) | STEL | 900 mg/m3            |
|  | TWA  | 150 ppm              |
|  |      | 600 mg/m3<br>100 ppm |

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye / face protection** Wear safety glasses with side shields (or goggles).

**Skin protection** Not normally needed. Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

**Respiratory protection** Not normally needed.  
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

**General hygiene considerations** 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.

**9. Physical & Chemical Properties**

|                           |                            |
|---------------------------|----------------------------|
| <b>Appearance</b>         | Clear light yellow liquid. |
| <b>Color</b>              | Light yellow.              |
| <b>Odor</b>               | Slight sulfur.             |
| <b>Physical state</b>     | Liquid.                    |
| <b>Form</b>               | Liquid.                    |
| <b>pH</b>                 | 4.5                        |
| <b>Flash point</b>        | > 200 °F (> 93.3 °C)       |
| <b>Evaporation rate</b>   | < 1 (nBu Ac=1)             |
| <b>Vapor density</b>      | Heavier than air.          |
| <b>Specific gravity</b>   | Not available.             |
| <b>Solubility (water)</b> | Complete.                  |
| <b>Density</b>            | 8.8 lb/gal                 |

**10. Chemical Stability & Reactivity Information**

|   |   |
|---|---|
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                     |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources.                     |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Do not mix with other chemicals or household cleaners. |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |

## 11. Toxicological Information

**Acute effects** May cause skin and eye irritation. Mist or vapor may be irritating to eyes and respiratory tract.

### Local effects

#### US ACGIH Threshold Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

**Sensitization** This product is not expected to cause skin sensitization.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### ACGIH Carcinogens

Sodium metabisulfite (CAS 7681-57-4) A4 Not classifiable as a human carcinogen.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium metabisulfite (CAS 7681-57-4) 3 Not classifiable as to carcinogenicity to humans.

## 12. Ecological Information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

**Persistence and degradability** No data available.

**Bioaccumulation / Accumulation** No data available.

**Mobility in environmental media** No data available.

## 13. Disposal Considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### TDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is not hazardous according to OSHA 29CFR 1910.1200.

#### TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)** No

**Section 311/312 (40 CFR 370)** Yes

**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)** Not controlled  
**WHMIS status** Non-controlled

#### Inventory status

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US - California Hazardous Substances (Director's): Listed substance

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Listed.  
Sodium metabisulfite (CAS 7681-57-4) Listed.

#### US - Massachusetts RTK - Substance: Listed substance

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Listed.  
Sodium metabisulfite (CAS 7681-57-4) Listed.

#### US - New Jersey RTK - Substances: Listed substance

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Listed.  
Sodium metabisulfite (CAS 7681-57-4) Listed.

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Listed.  
Sodium metabisulfite (CAS 7681-57-4) Listed.

**Mexico regulations** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

## 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
Health: 2  
Flammability: 1  
Physical hazard: 0

**NFPA ratings**  
Health: 2  
Flammability: 1  
Instability: 0

**Disclaimer** The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various government agencies (e.g., DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.

**Issue date** 12-30-2011